

**ECTIVE**

**ECTIVE LC S LiFePO<sub>4</sub> Batteries**

P. 118 Up to 170 % more capacity

**MORE POWER  
MORE POSSIBILITIES  
MORE FREEDOM**

**HI, NICE  
TO MEET**

**YOU**

**AGAIN!**

**READY TO  
GET ECTIVE?**

# EDITORIAL

Hello again!

Welcome to the new edition!

It's that time of year again: the new ECTIVE catalogue is here! Packed with everything you need for your mobile power supply projects. And as always, we hope that our „ECTIVE Bible“ will not only serve as a guide, but also inspire, accompany and perhaps even entertain you a little.

Over the past few months, we have once again put a lot of energy into further developing our products – and in doing so, we have kept one thing in mind above all else: your requirements. Because whether you're travelling on four wheels, on water or simply off the grid, the technology has to work reliably. We are therefore all the more delighted to be able to present you with some real highlights this time around.

First and foremost, we would like to introduce you to the new **LC-S series** of lithium batteries – compact, powerful and with plenty of power for those who have limited space but don't want to compromise (page 118). Also new: the **LC Dual** models, which can be used as both starter and supply batteries. There are also new

additions to the charge controllers: the popular **SC PRO MPPT solar charge controllers** are entering their second generation (page 60). And for those who also want to charge their starter battery when the supply battery is already fully charged, the **DSC solar charge controllers** are now also available as **PRO models** (page 62).

Joining our product range are the **Multiload S series** – two powerful chargers in a new design (page 142). And last but not least, we present the new **BSP series** – back-contact solar modules with high efficiency and a particularly elegant look (page 36).

Of course, this issue also contains lots of tips on choosing the right components.

We hope you enjoy browsing and discovering. Thank you for being part of our journey – whether at the campsite, by the lake or in the middle of nowhere.

Sunny regards,  
Your ECTIVE team



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Here you will find helpful tips on how to tailor your power supply perfectly to your needs!

## HIGHLIGHTS & INNOVATIONS



Our new  
connECTIVE app

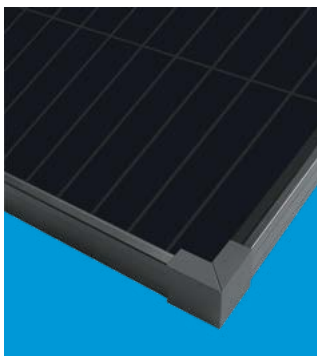
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Monitor, manage and configure your ECTIVE devices from your smart-phone. With a single app.

How much  
solar power?

22

This is how you determine how much power your devices require.



BSP: Back-  
Contact-Paneele

36

Elegance and efficiency thanks to modern back-contact technology, in which the conductor tracks are located on the rear of the modules.



SC & DSC PRO  
MPPT controllers

60

High-voltage MPPT solar charge controllers with direct current output or starter battery charging.

Your electricity  
requirements

84

Easily calculate what kind of battery your devices require.



Lithium  
technology

104

Our premium batteries: durable, efficient, safe.

**NEW:** Our LC S and LC S Under Seat batteries offer particularly high capacities in compact housings, while you can also use the LC Dual models as starter batteries.



Electricity just  
like at home.

159

Our inverters supply your devices with „clean electricity“. Our advanced PRO models deliver particularly high power.



All-in-one  
solutions

188

With our BlackBox and AccuBox, you are mobile, flexible and always reliably supplied with power.

360°

ECTIVE for B2B  
customers

214

Your advantages as a trading partner.

# THE ECTIVE ECOSYSTEM

Mobile and Independent Power Supply.

## The ECTIVE philosophy

Our products are at home wherever you want to enjoy **freedom** without the convenience of modern technology. ECTIVE products provide a **self-sufficient power supply**: In a motorhome, in a converted van or camper, on a boat, far from the beaten track in your allotment, in a tent or at the next festival... Where there's a will, there's a way. Where it takes you is up to you.

## Our range

When developing our products, we focus on ensuring that you can combine everything perfectly and that our devices also work with your existing equipment. We want you to be able to use and operate our products easily and prefer to pack complex technology inside. This also leaves more space on the outside for the pretty blue stripe. We deliberately keep our range as manageable as possible and focus on products that we believe in. And we like to listen to our customers. This allows us to further develop our products based on your wishes and experiences. Our range covers all aspects of mobile power supply:

Power generation via solar system

- Efficient charging technology
- Electricity storage in supply batteries
- Power conversion via inverter
- Innovative All-In-One solutions

## This is what sets ECTIVE apart:

**Innovative** — We rely on innovative technologies and are happy to break new grounds.

**Useful** — We love to provide our products with many useful functions.

**Easy as Pie** — We coordinate our products perfectly so everything is child's play.

**Reliable** — We use reliable components and test our products extensively.

## Our contribution to environmental protection

With ECTIVE, we not only want to create an ecosystem for safe and high-quality electricity supply, but also protect the ecosystem of all of us, the earth. We are therefore proud to be recognised as a climate-neutral company:



## The ECTIVE manufacturer's warranty

We are confident in the quality of our products! That is why we offer a voluntary manufacturer's warranty on many ECTIVE batteries, solar panels and inverters in addition to the statutory warranty: look out for the corresponding warranty seals when browsing through this catalogue!

You can find more detailed information about our warranties on the respective product page in our online shop: [ective.de](https://www.ective.de)





# WE ARE ECTIVE!

Meet the ECTIVE team.

ECTIVE products travel around the world with you.

They are developed in tranquil Freiberg am Neckar, near Stuttgart. Here, we work diligently on the next battery, the next solar panel, the next innovative solution for your self-sufficient power supply.

Whether in the laboratory, in the warehouse, in customer service or on social media — our team consists of passionate outdoor, camping and self-sufficiency enthusiasts who know exactly what matters when it comes to power on the go.

That's why we give our all, because your passion is also our passion: [More freedom on the go.](#)





## ECTIVE ON INSTAGRAM

[instagram.com/ective.de](https://www.instagram.com/ective.de)

### EXPERIENCE ECTIVE PRODUCTS IN THE WILD

Looking for inspiration for your next van conversion? On Instagram, we showcase campers, projects and adventures that have been realised with ECTIVE products. Take a look around and let yourself be infected by wanderlust!





## ECTIVE ON YOUTUBE

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)

### HELPFUL TIPS ON VAN CONVERSIONS AND OUR PRODUCTS

In this catalogue, you will find links to our YouTube channel covering many topics related to expansion. There, we explain briefly and concisely what you should consider when planning and implementing your power supply, and help you choose and commission your components!



ECTIVE



## Monitor, manage and configure ECTIVE devices in one app

The **connECTIVE** app provides you with real-time insights into the performance and status of your ECTIVE devices. In the long term, this enables you to optimise your energy consumption, troubleshoot problems and ensure the efficient operation of your energy systems.



**device monitoring**



**Configuration & settings**



**Notifications & warnings**

The connECTIVE app turns your smartphone or tablet into a smart command centre for your self-sufficient power supply:

The app offers real-time monitoring of ECTIVE devices and gives you access to important metrics such as battery charge level, solar panel efficiency, energy generation/consumption and current power output.

You can configure and adjust settings for your ECTIVE devices directly in the app. This includes

setting charging parameters, configuring battery settings and managing device connectivity.

The ECTIVE app provides you with notifications and alerts for important events such as low battery levels, system errors, etc., so that you can stay informed and take timely action if necessary. And the best part is: we are constantly developing the connECTIVE app to support our rapidly growing range of Bluetooth-enabled devices.

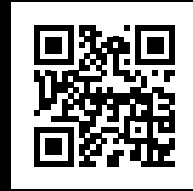
You can get the most out of the app with these devices:

The **connECTIVE** app is designed for use with all ECTIVE devices with Bluetooth functionality. From our lithium batteries to devices with an internally built-in or externally connected BM X battery monitor, to MPPT solar charge controllers, charging and solar charging boosters equipped with the BT 1 Bluetooth dongle.



Download the **connECTIVE** app now!





Learn more:  
[ective.de/app](https://ective.de/app)

Whether it's a lithium battery, charge controller, charge booster or all-in-one solution: with the connectIVE app, you have all your devices under control.







**ECTIVE**

Use solar energy efficiently.

# SOLAR POWER

**Efficient and elegant**

P. 36 Our new Back-Contact panels.



## WELL CARED FOR ALL ROUND

### ALL COMPONENTS OF YOUR SOLAR SYSTEM FROM A SINGLE SOURCE

Portable and mobile or mounted and stationary – the products for solar power from ECTIVE can be used in all situations and meet the most diverse requirements. Our extensive range of solar modules offers the right panel for every need and every application. With our MPPT solar charge controllers,

you can charge your on-board and starter battery and supply your DC consumers with power.

The ECTIVE solar ecosystem also includes solar monitors for monitoring and mounting profiles for installation on the camper roof. This means that all components of your solar system come from a single source and are perfectly coordinated.



# ADVANTAGES OF SOLAR ENERGY

## Using Solar Energy Efficiently.

Sustainable, environmentally friendly and climate-friendly – solar power is accelerating the energy transition towards a better eco-balance. With your solar system, you can generate electricity where you need it!

### Sun to electricity:

#### How does a solar system work?

A solar system consists of solar modules and a charge controller. When exposed to light, the system generates electricity in the form of direct current at approx. 18 V to 40 V, which is converted into 12 V or 24 V with the help of a charge controller. This electricity can be stored in a battery or used directly. In motorhomes, this is a supply battery. The smart charge controller recognizes the charge status of the connected battery(ies) and ends the charging process automatically when fully charged.

ECTIVE solar modules are models with crystalline cell technology, the cells are further differentiated into monocrystalline, polycrystalline and those with CIS technology. In a price-performance comparison, the monocrystalline cells come out on top, scoring highly in terms of efficiency.

### Mobile & independent: Where are solar modules used?

Solar modules can be used universally and are suitable for mobile and stationary power supplies. While stationary solutions are suitable

for balconies and garden sheds, mobile solutions are particularly flexible. With a solar module for mobile use, you are self-sufficient and secure your power supply independently of a power socket. Solar power is ideal for

- Camping
- Festivals and outdoor concerts
- Boats
- Motorhomes and campers
- Garden shed, balcony

**Note:** Solar modules reliably produce electricity even on cloudy days.

### Cost-effective & sustainable: How solar power protects the environment and your wallet:

Your solar module uses the sun's energy to produce free electricity that can be consumed directly or stored in a battery. Although the production of the modules requires energy and resources, their operation is CO2-neutral and over the years the solar cells generate many times more energy than was necessary for their production. Solar batteries remain a cost and environmental factor, but with proper care they will last for many years. Lithium batteries in particular are especially durable and easy to care for.



# ECTIVE SOLAR PRODUCTS

Our solar range at a glance.



## Solar Panels

P. 20 | Solar modules in different sizes for various applications.

▶ **Portable panels** | P. 38



## MPPT Charge Controllers

P. 54 | For gentle, efficient charging of batteries with solar power.

▶ **PRO charge controllers** | P. 60



## Solar Monitor

P. 67 | Convenient monitoring of all solar system values.



## Mounting Profiles

P. 68 | For simple and safe installation of the solar modules.

# ECTIVE SOLAR PANELS

Powerful, high quality, reliable.

## The power of the sun

With modern solar panels from ECTIVE, you can convert natural sunlight into usable electrical energy extremely effectively. This allows you to operate electrical devices and store solar power in your batteries.

## High efficiency

Our panels use advanced monocrystalline solar cells that allow a particularly high yield of solar energy. The modules deliver high yields even on smaller surfaces.

## Well protected

In contrast to conventional panels from many manufacturers, ECTIVE solar modules are covered by a safety glass plate. This reliably protects the panel from mechanical influences such as hail. The junction boxes of the modules are dustproof in accordance with protection

class IP65 and protected against water jets from any angle, because even if the sun is a solar module's best friend, rain should of course not be able to harm your panels.

## Get started right away

All our solar modules are equipped with pre-assembled MC4 connectors. This means you can easily connect your modules immediately after installation and use the power of the sun directly for your purposes.

## Portable panels for ultimate mobility

In addition to our classic solar modules, which you mount on your vehicle, boat or garden shed, we also have extremely light-weight, foldable solar panels in our offer. You can simply carry them with you as they are completely mobile and independent.



## USING SOLAR POWER EVERYWHERE

With ECTIVE's portable solar panels, you are completely mobile, as they can be easily folded or collapsed and, thanks to their low weight, carried around with you.

# THE RIGHT PANEL

Flexible, particularly lightweight or ultra mobile: We've got you covered!



## MSP Black

P. 26 | More power through reduced reflections.



## MSP S Black

P. 30 | Greater efficiency thanks to Advanced Cell technology.



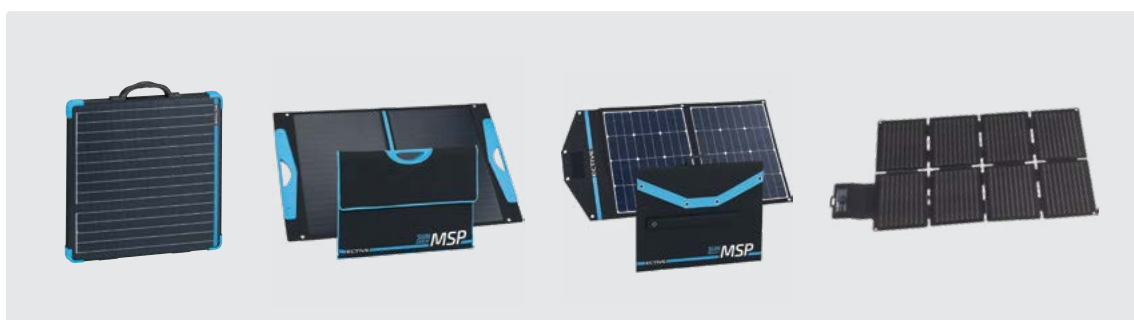
## MSP Flex

P. 32 | Flexible panels for curved surfaces.



## BSP Black

P. 36 | Efficient and elegant: Back-contact panels.



## Portable Solar Modules

Portable solar panels for complete independence and mobility.

ECTIVE SunBoard | P. 46

ECTIVE SunWallet | P. 50

ECTIVE SunDock | P. 48

ECTIVE SunGrid | P. 52



# HOW MUCH POWER DO I NEED?

This is how you determine the daily consumption of your appliances.

## Choosing the right solar module

The output of a solar module depends on its size and the technology used, as well as the intensity and duration of the sunlight. You should therefore plan well in advance what you expect to need. To make it easier for you to choose your solar panel, we have prepared a few tips to help you.

## A sample calculation

You are on tour with your camper, but work a few hours a day in your mobile home office. Your laptop consumes around 60 W or 5 Ah, and your equipment also includes lighting and a water pump. The following table illustrates the calculation of the daily consumption for the devices used:

Electrical consumer	Performance (W)	Runtime (h)	Energy requirement (Wh)	Required battery capacity (at 12 V)
Water pump	25 W	0,5 h	$25 \times 0,5 \text{ h} = 12 \text{ Wh}$	$12 \text{ Wh} / 12 \text{ V} = 1 \text{ Ah}$
Light	15 W	4 h	$15 \times 4 = 60 \text{ Wh}$	$60 \text{ Wh} / 12 \text{ V} = 5 \text{ Ah}$
Laptop	60 W	4 h	$60 \times 4 = 240 \text{ Wh}$	$240 \text{ Wh} / 12 \text{ V} = 20 \text{ Ah}$

This calculation shows that the battery of the solar system must provide a capacity of 26 Ah in order to power the devices over the entire runtime.

A 120 Wp solar panel on the roof of your camper generates around 33 Ah per day in good weather from spring to fall. This is already sufficient for a continuous operation of your electrical devices. When choosing your battery, however, you should make sure

it is not discharged too deeply. The battery capacity should be around 4 times the capacity expected to be drawn by the consumers.

This means that with a daily power consumption of 26 Ah, the capacity of the solar battery should be  $26 \times 4 = 96$  Ah. A gel battery or an AGM battery with a capacity of 110 Ah or more is then the right choice. Alternatively, lithium batteries are convincing as innovative supply batteries.



ECTIVE on YouTube

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



## SOLAR SETUP IN YOUR VAN

The budget is decisive, but so are your needs!

Alexej explains how you can connect your solar power system in series or in parallel.

In order to operate electrical appliances reliably, it makes sense to use a solar system with a higher output than the calculated requirement. In the example, with a daily consumption of 26 Ah and a calculation  $\times 3$ , this corresponds to a solar system with an output of 78 Ah. For power supply on cloudy days and during the darker seasons, double the output is recommended. For large touring vehicles and year-round tours, a system with at least 280 Wp is often recommended: this is sufficient for additional electrical consumers.

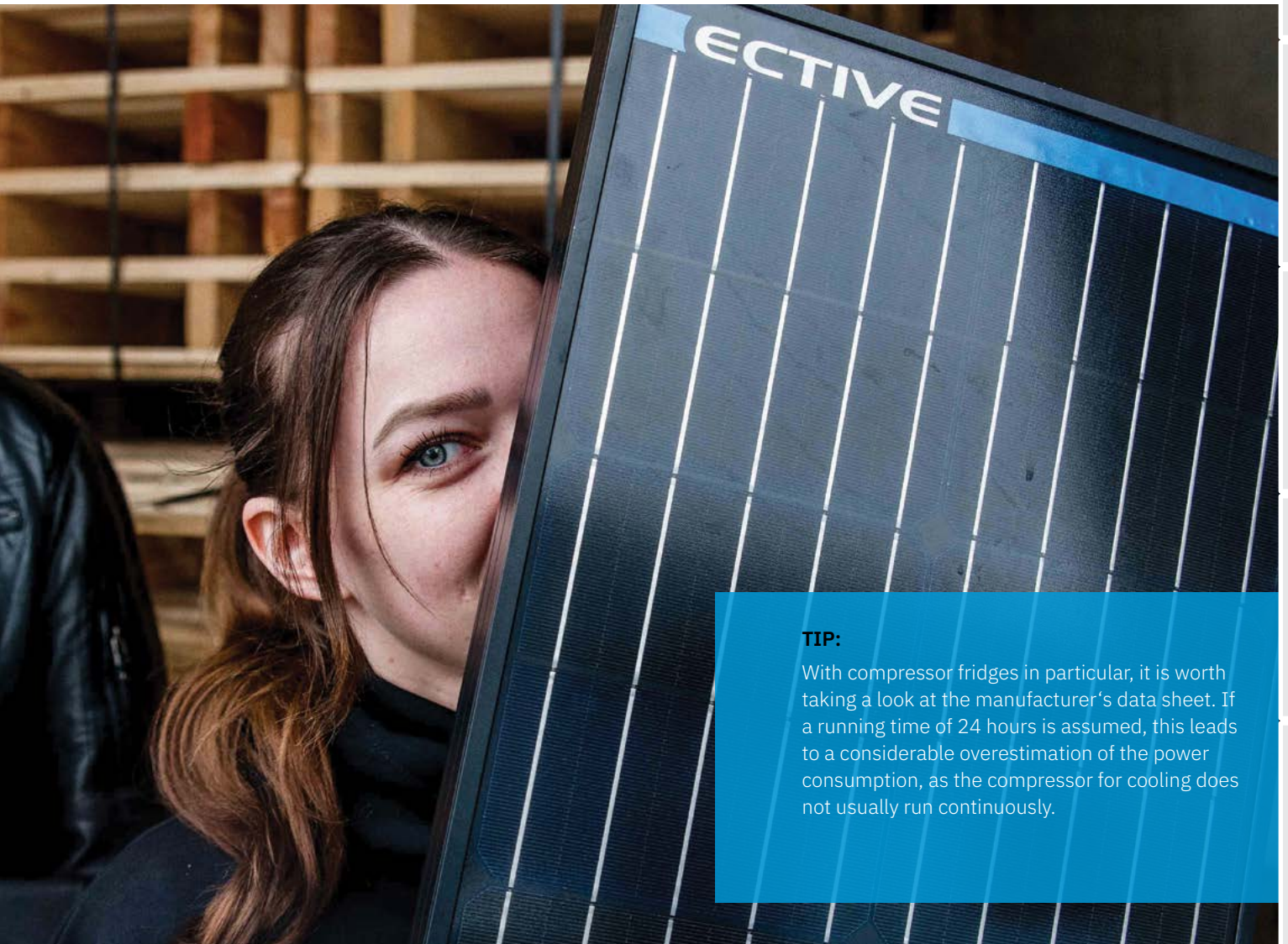
**Note:** The output of a solar system can be increased by connecting modules in parallel or in series. The available surface area is of course a limiting factor here.

### Your actual needs

Your requirements will certainly differ from this example. The actual energy requirements of your appliances will of course depend on your appliances and how long you want to use them. It makes sense to get an overview in advance of which appliances you want to use for how long each day.

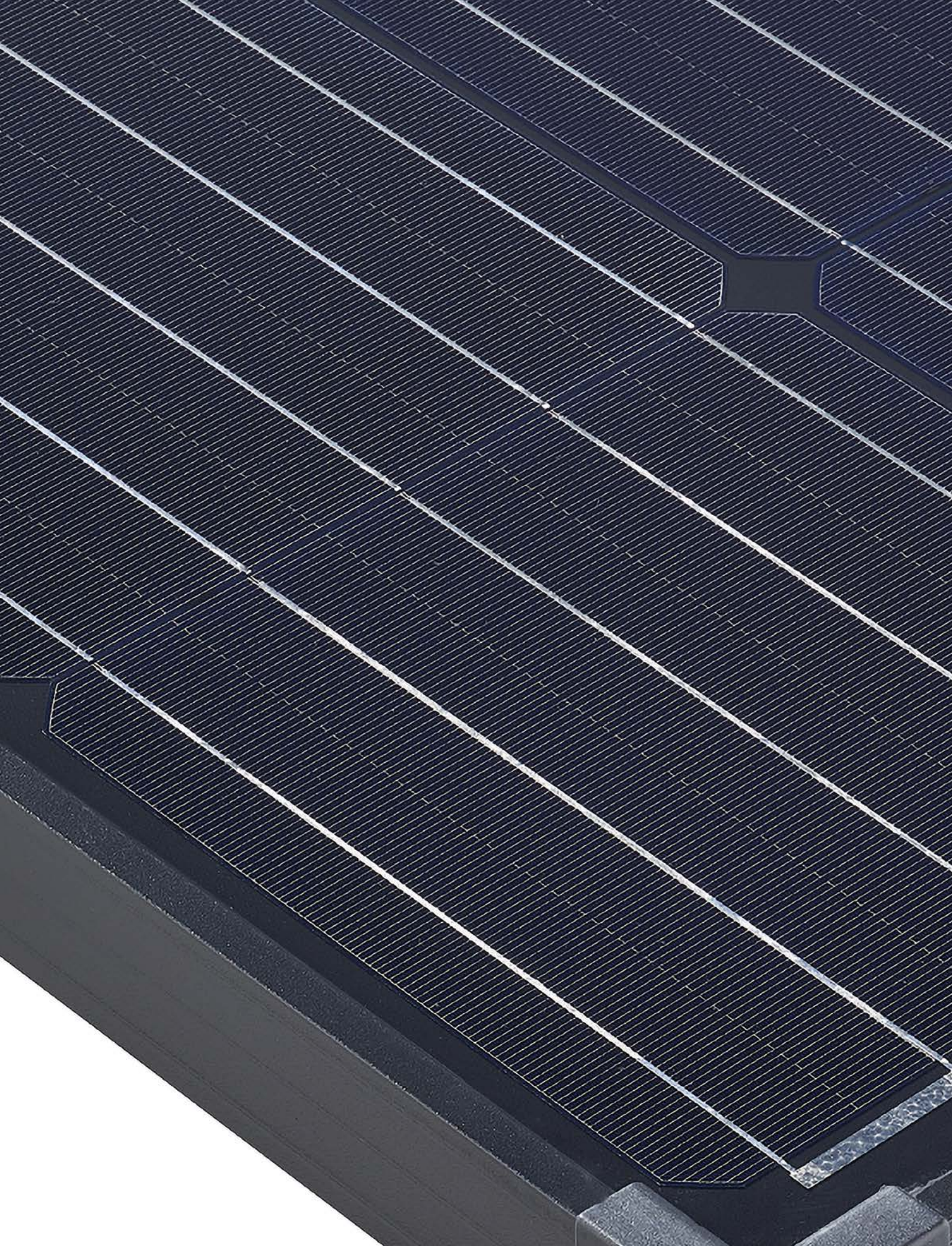
The following rules of thumb apply in any case:

- The capacity of your solar battery should be at least four times your calculated daily requirement.
- The output of your solar system should be at least three times your calculated daily requirement.



#### TIP:

With compressor fridges in particular, it is worth taking a look at the manufacturer's data sheet. If a running time of 24 hours is assumed, this leads to a considerable overestimation of the power consumption, as the compressor for cooling does not usually run continuously.





### MONOCRYSTALLINE SOLAR CELLS

Originally developed for space travel and satellite technology, monocrystalline solar cells are characterized by a particularly high level of efficiency. With values of 14 to 26%, they significantly exceed the efficiency of conventional polycrystalline modules, which only convert 12 to 16% of the sun's radiation into usable electricity. What may initially sound like very little added value actually makes a huge

difference in the field of solar technology. The higher efficiency is immediately noticeable where the highest possible yield is to be achieved on a small area. The best example is a motorhome roof. The monocrystalline solar cells are manufactured from a single silicon crystal in a complex production process, resulting in a homogeneous crystal structure. In addition to high efficiency, they are also characterized by robustness, long service life and dark blue to black colouring.



# ECTIVE MSP BLACK SOLARPANEELLE

More power through reduced reflections.

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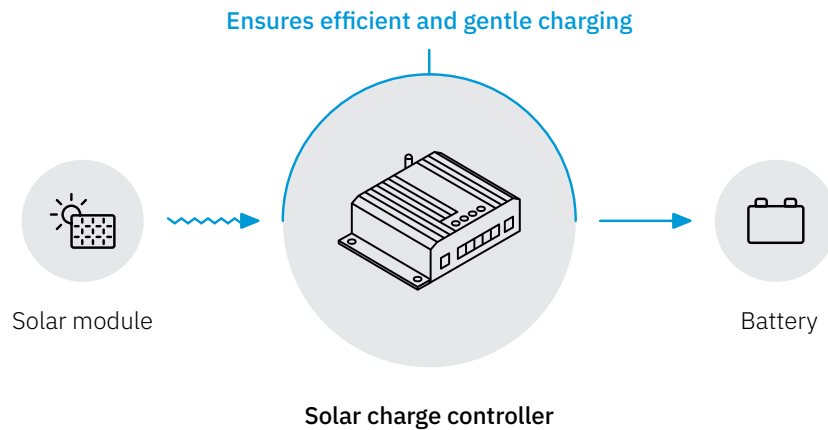
Black is chic! But the **ECTIVE MSP Black** Line solar panels not only impress with their elegant look: their black anodized aluminium frame and black base surface help to reduce reflection. As a result, more solar energy is

absorbed and the Black Line panels deliver even more power than conventional panels with monocrystalline cells with identical dimensions.



## Practical tip: Charging batteries with solar power

To provide for times when the sun is not shining, simply store solar power in your supply battery. The advanced MPPT charge controllers from ECTIVE ensure efficient and gentle charging and thus help to extend the service life of your batteries.



Our charge controllers are compatible with many of our inverters. They convert the stored electricity into alternating current and thus supply your electrical devices. For a practical all-in-one solution, choose our SSI inverters: The MPPT solar charge controller is directly installed here.



MPPT Solar Charge Controllers  
P. 54



Inverters  
P. 156

 **ECTIVE on YouTube**

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



### SOLAR IN FOCUS:

Everything you need to know for your project

Alexei explains how solar power is generated, converted and stored.

## MSP 50 Black



**Rated Power (Wp):** 50 W  
**Nominal Voltage:** 18,72 V  
**Nominal Current:** 2,67 A  
**Size:** 798 × 360 × 25 mm  
**Weight:** 3,4 kg

## MSP 70 Black



**Rated Power (Wp):** 70 W  
**Nominal Voltage:** 18,06 V  
**Nominal Current:** 3,88 A  
**Size:** 676 × 540 × 25 mm  
**Weight:** 4,1 kg

## MSP 90 Black



**Rated Power (Wp):** 90 W  
**Nominal Voltage:** 18,74 V  
**Nominal Current:** 4,81 A  
**Size:** 1350 × 335 × 35 mm  
**Weight:** 5,0 kg

## MSP 100 Black



**Rated Power (Wp):** 100 W  
**Nominal Voltage:** 18,82 V  
**Nominal Current:** 5,31 A  
**Size:** 780 × 676 × 25 mm  
**Weight:** 5,6 kg

## MSP 120 Black



**Rated Power (Wp):** 120 W  
**Nominal Voltage:** 18,78 V  
**Nominal Current:** 6,39 A  
**Size:** 915 × 676 × 25 mm  
**Weight:** 6,5 kg

## MSP 175 Black



**Rated Power (Wp):** 175 W  
**Nominal Voltage:** 18,98 V  
**Nominal Current:** 9,23 A  
**Size:** 1324 × 676 × 35 mm  
**Weight:** 9,6 kg

**5 YEARS WARRANTY**

**Our ECTIVE Warranty** – At least 80% of rated power after 5 years.

**15 YEARS WARRANTY**

**Our ECTIVE Warranty** – At least 70% of rated power after 15 years.

## MSP 190 Black



**Rated Power (Wp):** 190 W  
**Nominal Voltage:** 19,88 V  
**Nominal Current:** 9,56 A  
**Size:** 1482 × 676 × 35 mm  
**Weight:** 11,1 kg

## Technical Specifications

**Solar cells:** Monocrystalline  
**Plug connection:** MC4  
**Cable length:** 790 mm  
**Connections:** Protection Class IP65  
**Efficiency:** Over 17,9 %  
**Temperature range:** -40 to +85 °C



ELECTIVE

SOLAR POWER

BATTERIES

CHARGING TECH

INVERTERS

ALL-IN-ONE

INSTALLATION



# ECTIVE MSP S BLACK SOLAR PANELS

Advanced cell technology for even greater efficiency.

More power and even more yield: this is the benefit of the Advanced cell technology of the **ECTIVE MSP-S-Black** models. This innovative advancement in solar technology ensures optimal usage of solar energy, even if parts of the panel are in partial shade or even in the shade. These high-end modules have 64 or 72 individual cells connected in

parallel: On the same surface area, that's around twice as many cells as regular panels. Thanks to this high number of cells and the optimized circuitry, MSP-S-Black models reliably deliver a higher solar yield even in unfavourable light and weather conditions.



## RELIABLE PERFORMANCE EVEN IN PARTIAL SHADE

The view. Protection from wind and weather. Many factors determine the perfect location for your camper. Unromantic considerations such as making the most of the sun's energy should not be in the focus. And if the camper is parked under a tree in partial shade – so be it! Because it is precisely in these situations that the Black S models come into their own.

## Technical Specifications

**Solar cells:** Monocrystalline

**Plug connection:** MC4

**Cable length:** 790 mm

**Junction box:** Protection Class IP65

**Efficiency:** Over 17,9 %

**Temperature Range:** -40 to +85 °C

**Warranty (80 % Rated Power):** 5 Years

**Warranty (70 % Rated Power):** 15 Years

## MSP 70 S Black



**Rated Power (Wp):** 70 W  
**Nominal Voltage:** 36,19 V  
**Nominal Current:** 1,94 A  
**Size:** 676 × 540 × 25 mm  
**Weight:** 4,1 kg

## MSP 100 S Black



**Rated Power (Wp):** 100 W  
**Nominal Voltage:** 36,17 V  
**Nominal Current:** 2,77 A  
**Size:** 780 × 676 × 25 mm  
**Weight:** 5,6 kg

## MSP 120 S Black



**Rated Power (Wp):** 120 W  
**Nominal Voltage:** 36,24 V  
**Nominal Current:** 3,32 A  
**Size:** 915 × 676 × 25 mm  
**Weight:** 6,5 kg

## MSP 175 S Black



**Rated Power (Wp):** 175 W  
**Nominal Voltage:** 37,16 V  
**Nominal Current:** 4,71 A  
**Size:** 1324 × 676 × 35 mm  
**Weight:** 9,6 kg

## MSP 190 S Black



**Rated Power (Wp):** 190 W  
**Nominal Voltage:** 37,28 V  
**Nominal Current:** 5,1 A  
**Size:** 1482 × 676 × 35 mm  
**Weight:** 11,1 kg

**5 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – At least 80% of rated power after 5 years.

**15 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – At least 70% of rated power after 15 years.



# ACTIVE MSP FLEX SOLAR PANELS

Flexible panels for curved surfaces

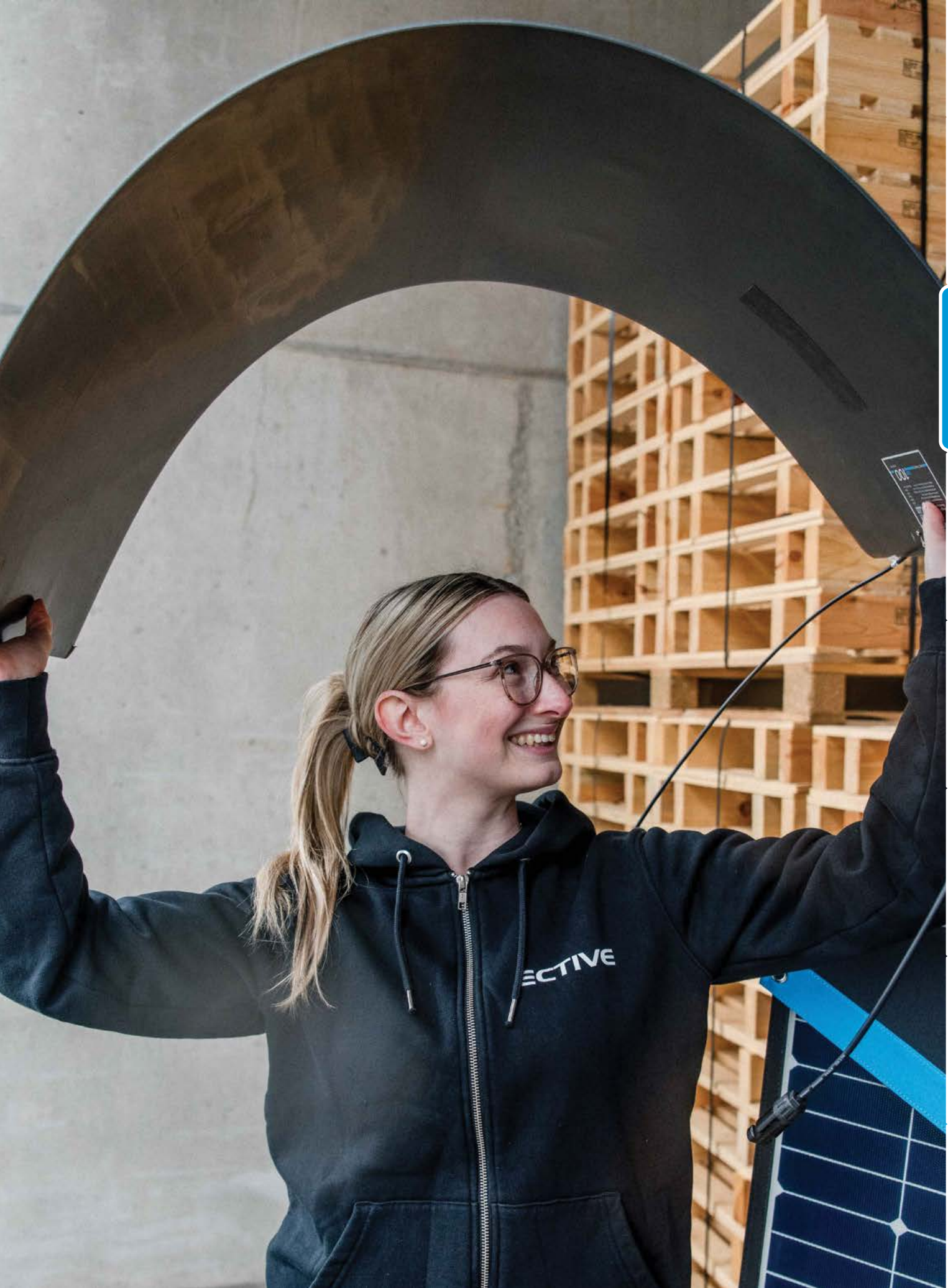
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Sometimes very special flexibility is required – and with our **MSP Flex** solar panels, the name says it all. With a carrier plate that is just three millimetres thick and consists of a plastic-coated aluminum core, these panels are extremely flexible and at the same time extremely stable. Whether on the curved roof of your camper, on one of the many curves of your boat or even on your balcony railing: with their flexibility of up to 30 degrees, the Flex panels adapt perfectly to all curves and bends. This means you can also use areas that cannot be fitted with rigid panels.

The sturdy aluminum and plastic construction is complemented by a translucent, textured ETFE coating. This ensures high scratch resistance and is resistant to ageing and weathering. It is particularly useful when used on a boat, as the coating also protects the installed solar cells from aggressive salt water.

The Flex modules are extremely easy to install: they can be glued to almost any surface, even if it is not perfectly flat. In addition, the junction box assembled with MC4 connectors is located on the front of these panels. This means you can easily connect the panels directly after installation.





ELECTIVE

SOLAR POWER

BATTERIES

CHARGING TECH

INVERTERS

ALL-IN-ONE

INSTALLATION

## MSP 50 Flex



**Rated Power (Wp):** 50 W  
**Nominal Voltage:** 18,0 V  
**Nominal Current:** 2,78 A  
**Size:** 670 × 535 × 3 mm  
**Weight:** 1,00 kg

## MSP 100 Flex



**Rated Power (Wp):** 100 W  
**Nominal Voltage:** 20,0 V  
**Nominal Current:** 5,00 A  
**Size:** 845 × 710 × 3 mm  
**Weight:** 1,90 kg

## MSP 120 Flex



**Rated Power (Wp):** 120 W  
**Nominal Voltage:** 23,0 V  
**Nominal Current:** 5,22 A  
**Size:** 930 × 710 × 3 mm  
**Weight:** 2,20 kg

## MSP 140 Flex



**Rated Power (Wp):** 140 W  
**Nominal Voltage:** 26,9 V  
**Nominal Current:** 5,20 A  
**Size:** 1110 × 710 × 3 mm  
**Weight:** 2,60 kg

## MSP 180 Flex



**Rated Power (Wp):** 180 W  
**Nominal Voltage:** 18,5 V  
**Nominal Current:** 9,73 A  
**Size:** 1430 × 710 × 3 mm  
**Weight:** 3,30 kg

## MSP 200 Flex



**Rated Power (Wp):** 200 W  
**Nominal Voltage:** 20,5 V  
**Nominal Current:** 9,76 A  
**Size:** 1595 × 710 × 3 mm  
**Weight:** 3,65 kg

**5 YEARS WARRANTY**

**Our ECTIVE Warranty** – At least 80% of rated power after 5 years.

## MSP 260 Flex



**Rated Power (Wp):** 260 W  
**Nominal Voltage:** 21,0 V  
**Nominal Current:** 12,40 A  
**Size:** 1740 × 775 × 3 mm  
**Weight:** 4,60 kg

## Technical Specifications

**Solar cells:** Monocrystalline  
**Plug connection:** MC4  
**Cable length:** 350 mm  
**Connections:** Protection Class IP67  
**Efficiency:** Over 22 %  
**Temperature range:** -40 to +80 °C  
**Warranty (80 % Rated Power):** 5 Years



ELECTIVE

SOLAR POWER

BATTERIES

CHARGING TECH

INVERTERS

ALL-IN-ONE

INSTALLATION



# ECTIVE BSP BLACK SOLARPANELS

Back-contact panels for maximum efficiency and elegance.

In the new back-contact panels of the **ECTIVE BSP series**, all **contacts are located on the rear of the solar cells**, giving them almost uninterrupted light absorption on the front. Thanks to reduced shading of the cell surfaces and minimal electrical resistance, BSP modules achieve particularly high efficiency, even in diffuse light or partial shading. But the hidden conductor tracks not only minimise reflections

and ensure high light yield: with their uniformly dark panel surface and no visible contact tracks, BSP modules are real eye-catchers with a particularly elegant look. Ideal for anyone who wants to get the most out of their self-sufficient power supply in terms of performance and design.



## BSP 80 Black



**Rated Power (Wp):** 80 W  
**Nominal Voltage:** 18 V  
**Rated Current (Impp):** 4,4 A  
**Size:** 960 × 360 × 30 mm  
**Weight:** 3,7 kg

### NO CONDUCTOR TRACK IN SIGHT!

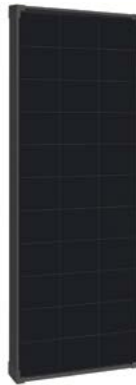
Clean and minimalistic: the surface of the BSP solar modules impresses with its elegance. But the inner values are also right: optimised light yield and low losses are a real added value, especially under real conditions.

## BSP 100 C Black



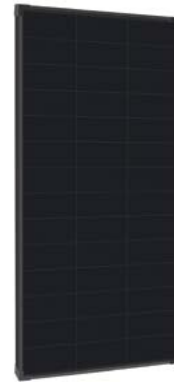
**Rated Power (Wp):** 100 W  
**Nominal Voltage:** 18 V  
**Rated Current (Imp):** 5,56 A  
**Size:** 695 × 695 × 30 mm  
**Weight:** 5,1 kg

## BSP 100 L Black



**Rated Power (Wp):** 100 W  
**Nominal Voltage:** 18 V  
**Rated Current (Imp):** 5,56 A  
**Size:** 930 × 530 × 30 mm  
**Weight:** 5,2 kg

## BSP 120 Black



**Rated Power (Wp):** 120 W  
**Nominal Voltage:** 21 V  
**Rated Current (Imp):** 5,71 A  
**Size:** 1170 × 530 × 30 mm  
**Weight:** 6,6 kg

## BSP 170 Black



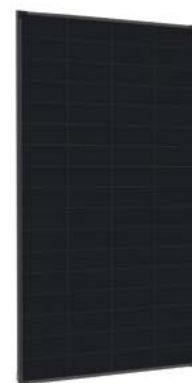
**Rated Power (Wp):** 170 W  
**Nominal Voltage:** 30 V  
**Rated Current (Imp):** 5,65 A  
**Size:** 1540 × 530 × 30 mm  
**Weight:** 8,7 kg

## BSP 190 Black



**Rated Power (Wp):** 190 W  
**Nominal Voltage:** 36 V  
**Rated Current (Imp):** 5,27 A  
**Size:** 1655 × 530 × 30 mm  
**Weight:** 9,3 kg

## BSP 200 Black



**Rated Power (Wp):** 200 W  
**Nominal Voltage:** 18 V  
**Rated Current (Imp):** 11,1 A  
**Size:** 1410 × 700 × 30 mm  
**Weight:** 10,5 kg

## Technical Specifications

**Solar cells:** Monocrystalline

**Plug connection:** MC4

**Cable length:** 900 mm

**Connections:** Protection Class IP65

**Efficiency:** 24,5 to 24,7 %

**Temperature range:** -40 to +85 °C

# PORTABLE SOLAR MODULES

Absolute mobility and independence.

Be completely independent: The **portable solar panels** from ECTIVE make it possible! You don't need to permanently install these lightweight, handy modules to harness the sun's energy. Instead, you can fold them up or take them with you wherever you go and set them up quickly and easily in the ideal position. This means you can operate your electrical devices and charge your batteries wherever the sun is shining.

So whether you're camping, on a trip to the lake, a weekend in the countryside or at a festival, our portable solar modules are the perfect companion for self-sufficient power generation on the go. They are also perfect for film or photo shoots far away from civilization and, of course, ECTIVE's portable modules also use

monocrystalline cells, which ensure outstanding performance. The high efficiency of the individual cells is what makes the handy format and low weight possible in the first place.

Our portable solar panels come in three different series: the modules in the ECTIVE **SunBoard**, **SunDock**, **SunWallet** and **SunGrid** series each have their own special advantages. They are all robustly manufactured and easy to clean, transport and store. You are sure to find the perfect model for you, so you can start your next adventure well equipped!

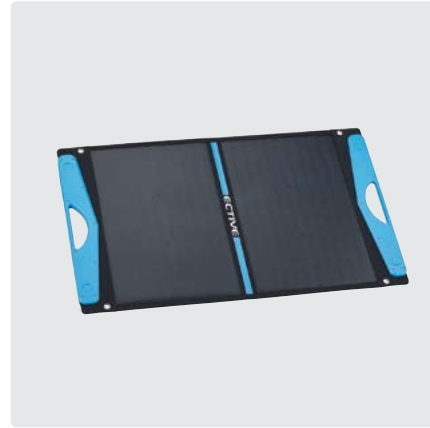




### ECTIVE SunBoard

**P. 46** | The stylish, hinged panels in the SunBoard range are particularly robust and suitable for demanding applications. They can be transported perfectly in the included carrying bag.

**4 Models (80 to 200 W)**



### ECTIVE SunDock

**P. 48** | The modules in the SunDock range offer a practical integrated USB port to charge small devices such as cell phones or cameras with solar power without any further detours. Carrying bag included.

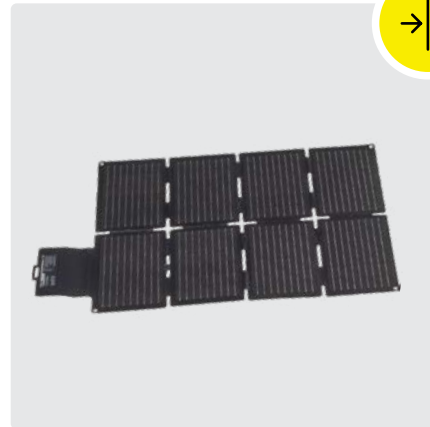
**4 Models (60 to 200 W)**



### ECTIVE SunWallet

**P. 50** | The ECTIVE SunWallets are particularly thin and light. When folded, they can be stowed away to save space and carried around by the integrated handle for mobile use.

**3 Models (80 to 180 W)**



### ECTIVE SunGrid

**P. 52** | The ultra mobile ECTIVE SunGrid solar panels are particularly efficient and can be folded down to a size of an A4-sheet of paper. Perfect for hikes, nature photography and other outdoor activities.

**3 Models (72 to 216 W)**



## Practical tips: Battery & inverter

1. Lithium batteries are ideal for mobile applications due to their minimal weight and maximum performance.
2. By connecting an inverter to your battery, you can convert the electricity generated into alternating current: just like the electricity from the socket at home. This allows you to operate your electrical devices completely independently.

# UNLIMITED POSSIBILITIES

...with portable solar panels from ECTIVE.

## Renewable energy for your home or garden

Many homeowners already use solar energy. Tenants, on the other hand, are not allowed to install solar panels on their roofs without further ado. ECTIVE's mobile solar panels are therefore the perfect solution for them too: the foldable and flexibly installable modules serve as mini solar systems for self-sufficient power supply on the balcony or in the garden. This means you are independent of the mains supply and can produce your own environmentally friendly energy.

## Charging batteries – simply and efficiently

To charge with solar power, connect a solar charge controller between your solar panel and the battery. The ECTIVE MPPT SC 20 is ideal for our portable solar modules, offering the perfect combination of performance and size for mobile applications. This fully automatic and maintenance-free charge controller maximises charging efficiency using MPPT technology, which keeps energy losses to a minimum. This means that charging times are significantly

reduced and the battery is protected. With this combination of solar panel and charge controller, you can generate environmentally friendly direct current that can be used to charge different types of supply batteries:

- Classic wet batteries (lead-acid batteries)
- Sealed wet batteries
- Gel and AGM batteries
- Lithium batteries

If you want your solar system to be particularly compact and straightforward, our all-in-one solutions are just right for you. The ECTIVE AccuBox and ECTIVE BlackBox feature a charge controller and lithium battery built directly into a compact, portable housing — plus an inverter, plenty of practical connections and convenient features.



Perfectly compatible with portable solar modules: the **ECTIVE SC 20** solar charge controller.



For the compact all-in-one solar system: the **ECTIVE AccuBox** with integrated charge controller.

# USE SOLAR POWER IMMEDIATELY

Combine your portable panel with the ECTIVE BlackBox or AccuBox.

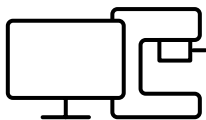
## The dream team for mobile power supply

Our portable panels in combination with the **ECTIVE BlackBox** or **ECTIVE AccuBox** offer the absolute optimum in flexibility and manageability. These compact, portable all-in-one solutions for mobile power supply have an integrated MPPT charge controller and

inverter. Simply connect your solar panel to one of these oversized power banks to charge the built-in lithium battery. The BlackBox and AccuBox have different connections and allow you to easily operate your electrical devices with the solar power generated.



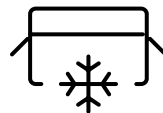
No matter when. No matter where. No matter which device.



**AC 230 volt outputs:**  
Electrical appliances such as Laptops or kitchen appliances



**USB ports:**  
Smartphones, tablets, cameras, e-readers...



**On-board voltage socket:**  
Freezers, 12-volt appliances...



**DC-12-Volt Outputs:**  
LED lamps, laptops...

**PRACTICAL TIP: THE PERFECT ANGLE**

No matter what you use your panel for: The yield is always highest when the sunlight falls vertically on the cells. So you can easily adjust your module to the position of the sun from time to time to maximize the yield.



# THE DREAM TEAM FOR EVERY ADVENTURE.

## PORTABLE SOLAR MODULES AND THE ECTIVE BLACKBOX.

The ECTIVE BlackBox is a portable all-in-one solution for mobile power supply. Find out everything about this XXL-sized power bank on P. 194!



# ROBUST POWER SUPPLY ON THE GO

WITH THE ECTIVE ACCUBOX.

The ECTIVE AccuBox is a true all-rounder and the perfect choice for demanding outdoor activities. Find out more about this robust, powerful power source on p. 198.





# ECTIVE SUNBOARD

Robust and stylish, including carrying bag.

The four stylish and robust solar modules in the **ECTIVE SunBoard** series are equipped with a practical folding mechanism so you can easily take them with you in the bag provided and set them up in the ideal location. The fold-out legs ensure a secure stand and you

can easily mount the perfectly compatible **SC 20 Silent charge controller** on the underside of the module. So you always have your reliable, self-sufficient power supply with you.

## MSP 80 SunBoard



**Rated Power (Wp)** 80 W  
**Nominal Voltage:** 19,8 V | **Rated Current:** 4,04 A  
**Size (Open):** 1022 × 515 × 25 mm  
**Size (Closed):** 515 × 515 × 50 mm  
**Weight:** 4,5 kg

## MSP 100 SunBoard



**Rated Power (Wp)** 100 W  
**Nominal Voltage:** 19,8 V | **Rated Current:** 5,05 A  
**Size (Open):** 1022 × 615 × 25 mm  
**Size (Closed):** 515 × 615 × 50 mm  
**Weight:** 5,55 kg

## MSP 120 SunBoard



**Rated Power (Wp)** 120 W  
**Nominal Voltage:** 18,2 V | **Rated Current:** 6,6 A  
**Size (Open):** 1053 × 670 × 25 mm  
**Size (Closed):** 525 × 670 × 50 mm  
**Weight:** 6,3 kg

## MSP 200 SunBoard



**Rated Power (Wp)** 200 W  
**Nominal Voltage:** 19,8 V | **Rated Current:** 10,1 A  
**Size (Open):** 1370 × 800 × 25 mm  
**Size (Closed):** 685 × 800 × 50 mm  
**Weight:** 9,5 kg



Useful accessories can be easily stowed in the bag.



Can be perfectly combined with the SC 20 Silent MPPT charge controller.





# ECTIVE SUNDOCK

With integrated USB connection, including carrying bag.

---

The blue carrying handle of the **ECTIVE SunDock** modules conceals a particularly practical feature: small devices such as smart-phones, tablets, navigation devices or Bluetooth speakers can be connected directly to the two integrated USB ports. This allows you to charge or operate these devices without any additional equipment: perfect for a trip or the next festival!

The SunDock series comprises four foldable models with different sizes and capacities. The smallest weighs just 2.5 kg and can be carried comfortably over longer distances using the convenient handle, while even the largest model weighs a pleasantly light 6.2 kg.



## MSP 60 SunDock



**Rated Power (Wp)** 60 W  
**Nominal Voltage:** 19,8 V  
**Rated Current:** 3,03 A  
**Size (Open):** 873 × 530 × 25 mm  
**Size (Closed):** 440 × 530 × 45 mm  
**Weight:** 2,5 kg

## MSP 100 SunDock



**Rated Power (Wp)** 100 W  
**Nominal Voltage:** 22,0 V  
**Rated Current:** 4,55 A  
**Size (Open):** 1040 × 675 × 25 mm  
**Size (Closed):** 520 × 675 × 45 mm  
**Weight:** 3,8 kg

## MSP 120 SunDock



**Rated Power (Wp)** 120 W  
**Nominal Voltage:** 19,8 V  
**Rated Current:** 6,06 A  
**Size (Open):** 1630 × 540 × 25 mm  
**Size (Closed):** 445 × 540 × 45 mm  
**Weight:** 4,8 kg

## MSP 200 SunDock



**Rated Power (Wp)** 200 W  
**Nominal Voltage:** 19,8 V  
**Rated Current:** 10,10 A  
**Size (Open):** 2250 × 535 × 25 mm  
**Size (Closed):** 605 × 535 × 45 mm  
**Weight:** 6,2 kg



Charge your small devices such as smartphone, camera, tablet etc. directly at the USB port of the ECTIVE SunDock!



# ECTIVE SUNWALLET

Particularly thin and light, perfect for folding.

The particularly thin and lightweight modules in the **ECTIVE SunWallet** series are a panel and bag in one. They can be folded up to save space, stowed away and carried around using the integrated handle. Thanks to this innovative design, you don't even need a carrying bag, as there is also plenty of integrated storage space for accessories such as cables. This makes the SunWallets ideal for particularly

mobile applications. Simply place or hang your SunWallet in the perfect spot and use the solar power generated wherever you are.

To charge your battery, combine the SunWallet with the compact and lightweight **SC 20 MPPT** charge controller, or use an ECTIVE BlackBox or AccuBox for maximum self-sufficiency!



## MSP 80 SunWallet



**Rated Power (Wp)** 80 W  
**Nominal Voltage:** 20,88 V | **Rated Current:** 3,98 A  
**Size (Open):** 1075 × 560 × 4 mm  
**Size (Closed):** 440 × 560 × 15 mm  
**Weight:** 1,6 kg

## MSP 135 SunWallet



**Rated Power (Wp)** 135 W  
**Nominal Voltage:** 22,3 V | **Rated Current:** 6,05 A  
**Size (Open):** 1525 × 560 × 4 mm  
**Size (Closed):** 440 × 560 × 20 mm  
**Weight:** 2,7 kg

## MSP 180 SunWallet



**Rated Power (Wp)** 180 W  
**Nominal Voltage:** 22,3 V | **Rated Current:** 8,08 A  
**Size (Open):** 1975 × 560 × 4 mm  
**Size (Closed):** 440 × 560 × 25 mm  
**Weight:** 4,1 kg





# ECTIVE SUNGRID

Ultra-mobile solar power in A4 format.

With our new ECTIVE **SunGrid modules**, we offer you an ultra-mobile and highly efficient way to use solar power anywhere.

With an exceptionally high efficiency of 23%, the modules in the **ECTIVE SunGrid** series are the most efficient portable modules in our range — and they come in an extremely compact format: When folded, an **ECTIVE SunGrid** is about the size of an A4 sheet of paper. This makes it the perfect companion when space and efficiency are paramount. Whether camping with a tent, hiking, nature photography or a bike tour: simply unfold the

SunGrid and position it using the practical fastening eyelets, to which suction cups can also be attached, for example. You can use the solar power generated to charge your **ECTIVE BlackBox** or use the integrated USB ports to power your small devices independently.

Thanks to the bag supplied, the ECTIVE SunGrid is not only safe and easy to transport, but also easy to store. This makes it a reliable backup solution for emergencies.



The thin and lightweight SunGrid modules are easy to set up thanks to their mounting eyelets: simply attach them directly to the side of your motorhome using suction cups, for example!



**Particularly practical:** USB ports for mobile phones, cameras and other devices.

**Particularly portable:** simply fold it up and pack it into the sturdy bag.

## MSP 72 SunGrid



**Rated Power (Wp):** 72 W  
**Nominal Voltage:** 20,0 V  
**Nominal Current:** 3,6 A  
**Size (Open):** 934 × 578 × 5 mm  
**Size (Folded):** 288 × 200 × 50 mm  
**Weight:** 2,4 kg

## MSP 162 SunGrid



**Rated Power (Wp):** 162 W  
**Nominal Voltage:** 20,0 V  
**Nominal Current:** 8,1 A  
**Size (Open):** 1185 × 866 × 3 mm  
**Size (Folded):** 295 × 200 × 90 mm  
**Weight:** 4,3 kg

## MSP 216 SunGrid



**Rated Power (Wp):** 216 W  
**Nominal Voltage:** 26,7 V  
**Nominal Current:** 8,1 A  
**Size (Open):** 1744 × 866 × 3 mm  
**Size (Folded):** 295 × 200 × 100 mm  
**Weight:** 5,7 kg



# MPPT-SOLARLADEREGLER

## What is a charge controller anyway?

A solar power system, sometimes referred to as a stand-alone system, consists of one or more solar modules and one (or more) batteries in which the energy generated is stored.

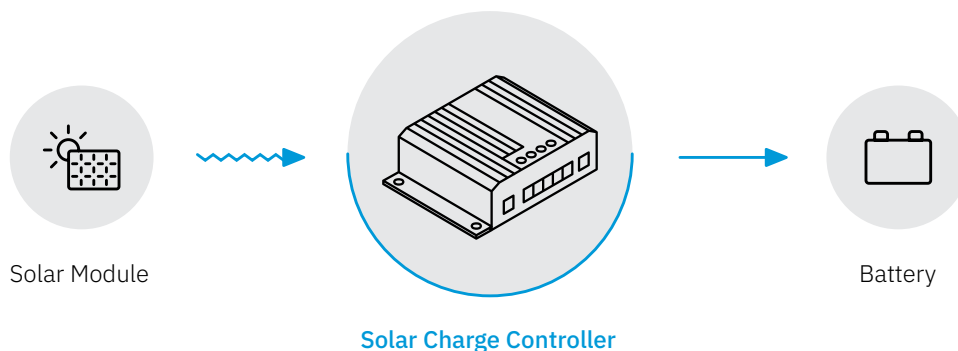
Another component that comes into play is the **solar charge controller**. It acts as the link between your solar modules and your battery by ensuring gentle charging. This extends the service life of the batteries. In addition, our charge controllers offer comprehensive protection functions to protect your electrical devices and batteries even under adverse conditions or in the event of incorrect use.

ECTIVE charge controllers are technically advanced **MPPT charge controllers**. This „maximum power point tracking“ technology

adjusts the input voltage so that the solar system always delivers maximum power. This makes them far superior to conventional, simpler PWM controllers, which can only deliver part of the energy generated to the battery.

In short: only an intelligent solar charge controller completes your off-grid system so that you can efficiently use every last ray of sunshine and ensure the longevity of your batteries.

The ECTIVE range currently includes four charge controller series, including the two new „**PRO**“ series, which offer particularly high charging power for all battery technologies. You can find out which charge controller is right for you on the following pages.



### PROPERTIES

- MPPT technology for optimum charging efficiency
- Conserves and protects your batteries
- Compact design for convenient installation
- Connection for temperature sensor and solar monitor
- Bluetooth module for monitoring performance data from a smartphone
- „DSC“ models with additional charging output for a starter battery

# CHARGE CONTROLLERS AT A GLANCE

Here you will find the right charge controller for every application.

Whether you want to charge a starter battery, have a powerful solar system or look for a particularly compact and lightweight charge

controller, there is a charge controller series for every purpose in the ECTIVE range:



## ECTIVE DSC

P. 58 | Charge controller with starter battery connection.



## ECTIVE SC

P. 59 | Charge controller with direct current connection.



## ECTIVE SC PRO

P. 60 | High-voltage charge controllers for all battery types.



## ECTIVE DSC PRO

P. 62 | Particularly powerful charge controllers with starter battery connection.

FOR THE PROS

# OPTIMAL CHARGING CHARACTERISTICS

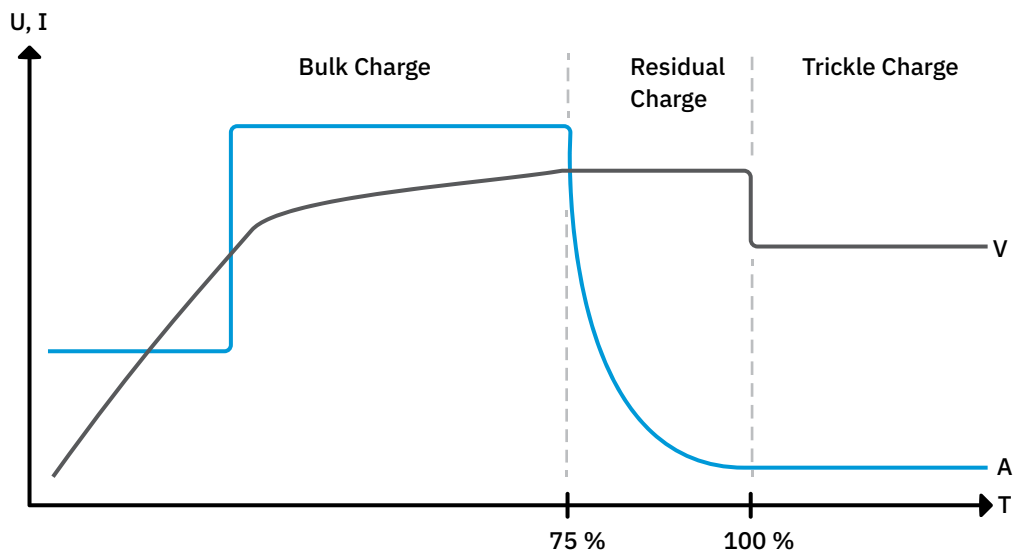
Efficient and gentle charging for all battery types.

The battery that you have connected to your solar system to store energy should be charged as quickly and efficiently as possible. How exactly the optimal charging process for the battery should take place depends on the battery technology. Modern microprocessors in our charge controllers ensure that the so-called IUoU charging characteristic is permanently maintained. This way the battery is charged considerably faster and more gently than with conventional charge controllers. With the tried-and-tested DIP switches on the charge controller, you simply

set which battery technology you want to use the device with. The smart charge controller does the rest and ensures optimal charging.

Our charge controllers support all common battery technologies:

- Wet batteries
- Gel batteries
- AGM batteries
- LiFePO<sub>4</sub> batteries



## TIMO'S TIPP: The right charge controller

When selecting your solar charge controller, be sure to check which input voltage the device supports. To do this, refer to the technical data for your solar modules. The output voltage specified there must not exceed the target input voltage of the charge controller. If you are using multiple modules, pay attention to the total voltage of all connected modules.

# PROTECTIVE FUNCTIONS

This is how your ECTIVE charge controller secures your system.

All MPPT solar charge controllers from ECTIVE are equipped with versatile protective functions to ensure safe, unmonitored operation.

- **Overload Protection**

The charge controller protects against excessive input and output loads.

- **Overcharge Protection**

Damage to your battery due to overcharging is reliably prevented.

- **Protection against Overheating**

Permanent temperature monitoring ensures that the charge controller

and battery do not exceed their operating temperature.

- **Protection against Reverse Polarity**

The charge controller only works if the positive and negative cables are connected correctly. The battery and charger are therefore always optimally protected.

- **Protection against Reverse Discharge**

If the solar power is too low, the charge controller prevents the current flowing back from the battery and thus prevents discharging.





# DSC MPPT CHARGE CONTROLLERS

Charge controller with starter battery connection.

The “D” in the **ECTIVE DSC** series stands for “Dual”: in addition to the regular connection for your main supply battery, these models have an additional charging output for vehicle starter batteries. This is a clear advantage if, for example, you want to stay in one

place with your motorhome for a longer period of time. Depending on the age and condition of your starter battery, even short periods of inactivity without such a charge can mean that your vehicle will no longer start reliably after the inactivity phase.

## DSC 12



**Max. solar power:** 165 Wp  
**Max. solar current:** 10 A  
**Max. solar voltage:** 50 V  
**Battery voltage (DC):** 12 V  
**Size:** 147 × 80 × 41 mm  
**Weight:** 0,34 kg

## DSC 25



**Max. solar power:** 350 Wp  
**Max. solar current:** 21 A  
**Max. solar voltage:** 50 V  
**Battery voltage (DC):** 12 V  
**Size:** 147 × 80 × 41 mm  
**Weight:** 0,40 kg

## DSC 35



**Max. solar power:** 500 Wp  
**Max. solar current:** 35 A  
**Max. solar voltage:** 50 V  
**Battery voltage (DC):** 12 V  
**Size:** 147 × 158 × 41 mm  
**Weight:** 0,76 kg



### Anschlüsse für:

- Solarmonitor
- Temperatur Sensor
- Bluetooth-Modul
- Starterbatterie



# SC MPPT CHARGE CONTROLLERS

Charge controller with direct current connection.

The larger charge controllers in the **ECTIVE SC** series support higher maximum solar module output, nominal battery voltage and charging current than the models in the DSC series.

They also have an integrated DC connection, which you can use to operate small 12 V consumers such as fans, car relays or even a small refrigerator with a D+ control input.

## SC 20

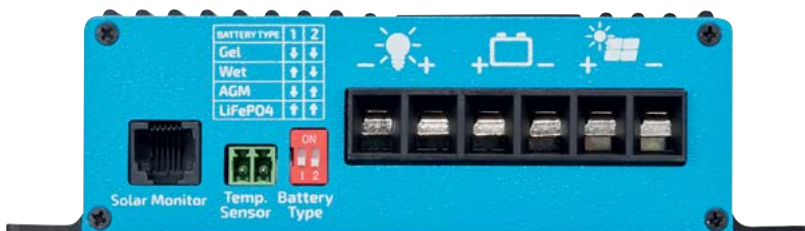


**Max. solar power:** 240/480 Wp  
**Max. solar current** 20 A  
**Max. solar voltage** 50 V  
**Battery voltage (DC):** 12/24 V  
**Size:** 147 × 130 × 41 mm  
**Weight:** 0,50 kg

## SC 40



**Max. solar power:** 480/960 Wp  
**Max. solar current** 20 A  
**Max. solar voltage** 50 V  
**Battery voltage (DC):** 12/24 V  
**Size:** 147 × 158 × 41 mm  
**Weight:** 0,77 kg



### Connections for:

- Solar monitor
- Temperature sensor
- Bluetooth module
- 12 V consumer



# MPPT CONTROLLER SC PRO

Innovative charge controllers for higher performance and full control



Our new MPPT solar charge controllers from the **SC PRO** series are characterised by their ability to process particularly high solar voltages — up to 150 V in the case of the SC 60 PRO! In addition, two identical SC PRO charge controllers can be connected together to effectively use twice as many solar modules for charging: particularly fast and efficient. The battery technology is irrelevant, as the SC PRO has charging characteristics for every conventional type.

The models in the SC PRO series also impress across the board in terms of application: thanks to their cooling fins, they do not require a fan and therefore do not cause any noise during operation — particularly practical if you want to install your charge controller indoors!

You can easily read data such as charging current and battery capacity on the LCD display. Or you can simply connect your charge controller to the **CONNECTIVE app** on your smartphone or tablet and keep an eye on all the relevant values of your solar system.

Thanks to the **practical DC output**, you can also easily operate 12 or 24 V consumers. The SC 60 PRO even supplies 36 or 48 V DC consumers.

Its simple and reliable application is complemented by versatile safety mechanisms that protect against short circuits, overcharging, overheating or reverse polarity.



## Connections for:

- Temperature sensor
- DC consumer (max. 20 A. 12 or 24 V; SC 60 PRO: 12, 24, 36 or 48 V)
- RS485 (MODBUS), CAN, CI bus
- Coupling of two identical SC PRO charge controllers (parallel charging)

## SC 20 PRO



Max. solar power: 300/600 Wp  
Max. solar current: 20 A  
Max. solar voltage: 100 V  
Battery voltage (DC): 12/24 V  
Size: 180 × 140 × 71 mm  
Weight: 1,52 kg

## SC 30 PRO



Max. solar power: 450/900 Wp  
Max. solar current: 30 A  
Max. solar voltage: 100 V  
Battery voltage (DC): 12/24 V  
Size: 275 × 180 × 82,5 mm  
Weight: 2,6 kg

## SC 40 PRO



Max. solar power: 600/1200 Wp  
Max. solar current: 40 A  
Max. solar voltage: 100 V  
Battery voltage (DC): 12/24 V  
Size: 275 × 180 × 82,5 mm  
Weight: 2,6 kg

## SC 60 PRO



Max. solar power:  
900/1800/2600/3200 Wp  
Max. solar current: 60 A  
Max. solar voltage: 150 V  
Battery voltage (DC): 12/24/36/48 V  
Size: 310 × 210 × 90 mm  
Weight: 4,2 kg



# MPPT CONTROLLER DSC PRO

Particularly powerful charge controllers with starter battery connection.



The new **DSC PRO** series adds three premium models with powerful, reliable dual functionality to our range of high-voltage MPPT solar charge controllers: Once the supply battery is fully charged,

the DSC PRO then safely and efficiently charges your vehicle's **starter battery**. All the practical features of the SC PRO series are of course also included in the **DSC PRO** models.

## DSC PRO 20



**Max. solar power:**  
300/600/900/1200 Wp  
**Max. solar current:** 20 A  
**Max. solar voltage:** 150 V  
**Battery voltage (DC):**  
12/24/36/48 V  
**Max. current Batt. I/II:**  
20,0 / 1,0 A  
**Size:** 180 × 140 × 71 mm  
**Weight:** 1,52 kg

## DSC PRO 30



**Max. solar power:**  
450/900/1350/1800 Wp  
**Max. solar current:** 30 A  
**Max. solar voltage:** 150 V  
**Battery voltage (DC):**  
12/24/36/48 V  
**Max. current Batt. I/II:**  
30,0 / 1,0 A  
**Size:** 275 × 180 × 82,5 mm  
**Weight:** 2,60 kg

## DSC PRO 40



**Max. solar power:**  
600/1200/1800/2400 Wp  
**Max. solar current:** 40 A  
**Max. solar voltage:** 150 V  
**Battery voltage (DC):**  
12/24/36/48 V  
**Max. current Batt. I/II:**  
40,0 / 1,0 A  
**Size:** 275 × 180 × 82,5 mm  
**Weight:** 2,60 kg



ECTIVE

ECTIVE SC 20 PRO

ECTIVE SC 60 PRO

ECTIVE DSC 30 PRO

ECTIVE DSC 40 PRO

ECTIVE

# EXPAND YOUR SOLAR SYSTEM

These practical components optimize your solar system.

---

You can achieve optimal efficiency and operability by adding useful accessories to your solar system. With the **ECTIVE solar monitor**, you can always keep an eye on all the values of your solar system. The **ECTIVE battery temperature sensor** also optimizes the charging characteristic of the charge controller based on the current temperature of the battery.

You can round off your solar system with an **ECTIVE inverter**. This enables you to operate

your electrical devices directly with solar power. If you already have an **ECTIVE SI** or **CSI** inverter, an MPPT charge controller is the perfect addition. This allows you to continue using solar energy in the future and saves you having to purchase a new inverter. If you do not yet have an inverter or charge controller, take a look at the **ECTIVE SSI** series inverters. An MPPT charge controller is already integrated in this practical all-in-one solution!



## ECTIVE Solar Monitor

Connect the ECTIVE solar monitor to your charge controller to keep an eye on all the values of your solar system in real time.



## Battery Temperature Sensor

Add the ECTIVE battery temperature sensor to your charge controller. This optimizes the charging characteristic based on the current battery temperature.



## Inverter

Operate your electrical loads directly with solar power. You can find out whether the ECTIVE SI, CSI or SSI is the right one for you from P. 162.



## KEEP AN EYE ON YOUR POWER SYSTEM

### BLUETOOTH MODULE

The BT 1 Bluetooth module for ECTIVE charge controllers allows you to conveniently monitor your device from your smartphone — with the new connECTIVE app!



# SOLAR ACCESSORIES

Get the most out of your solar system!

Our range includes numerous **accessories** so that you can set up and operate your solar system in the best possible way. From high-quality adapters and distribution

cables to easy-to-install **retaining spoilers** and an elegant and helpful **solar monitor**: with accessories from ECTIVE, you can get the most out of your solar system.





# ECTIVE SM SOLAR MONITOR

Your solar system – in full view.

With our **solar monitor**, you can add a really useful tool to your solar system. Simply connect the solar monitor to an ECTIVE MPPT solar charge controller and use it to monitor all relevant performance values. The device is compact and elegant, making it easy to install anywhere. The illuminated display is easy to read in all lighting conditions and always shows

you all relevant data on the performance of your solar system and the charge status of the connected battery. The intelligent monitor automatically switches to energy-saving standby mode to avoid unnecessary power consumption. A quick press of the button shows you all the information at a glance.

## ECTIVE SM 1



**Nominal battery voltage:** 12 / 24 V  
**Operating voltage range:** 8 to 32 V  
**Display function:** W, A, V, Ah, Wh  
**Display area:** 51 × 30 mm  
**Dimensions:** 90 × 90 × 30 mm  
**Weight:** 0,10 kg  
**Cable length:** 5 m

**The ECTIVE SM 1 keeps you up to date about all relevant values of your solar system:**

- **Charging current**  
What current is your battery currently being charged with?  
A glance at the display will tell you.
- **Solar power**  
How much power are your solar modules currently generating? This display keeps you permanently informed.
- **Battery voltage**  
The voltage display keeps you informed about the status of your battery.
- **Charge quantity**  
How much energy was charged from your solar panels into the battery? You can find out here.



# ECTIVE MOUNTING KITS

For safe and easy installation of your solar modules.

---

With our mounting profiles, you can easily and securely attach your ECTIVE MSP or SSP solar modules to the roof of your camper. The profiles are made of unbreakable plastic and provide additional weight savings thanks to their stable yet lightweight design.

## Simple installation for a secure hold

The dimensions of the profiles are perfectly matched to the aluminum frames of the solar modules. This ensures a secure hold and clean installation of your panels. Simply attach the profiles with special body adhesive. Then attach the panels to the profiles with screws so that everything is securely connected.

## Practical sets for every project

You can order the long and short rail profiles in pairs, the corner profiles are available as a set of 4. We have also put together complete sets that include corner profiles, long or short rail profiles and a cable socket. Now all you have to do is choose whether the black or white profiles are better suited to your camper.

## Extra tip: adapters and distributors

With our high-quality connection adapters and distributors, you can set up your ECTIVE solar system quickly and exactly as you want it. Find out more about our range at [ective.de](http://ective.de)!



## 4 × Corner profiles



Dimensions (L × W × H):  
150 × 150 × 65 mm

## 2 × Short retaining spoilers



Dimensions (L × W × H):  
180 × 89 × 65 mm

## 2 × Long retaining spoiler



Dimensions (L × W × H):  
534 × 89 × 65 mm

## Roof duct



Dimensions (L × W × H):  
100 × 90 × 45 mm

## 7-piece complete set (short)



## 7-piece complete set (long)



All sets are available in black and white color.



# SOLAR POWER IN THE EFFECTIVE ECOSYSTEM

This is how you use the generated solar power.

As you can see, with our comprehensive range of solar power products, you can put together a solar power system exactly according to your wishes and needs. Whether on your camper, boat, the balcony of your rented apartment or even portable: ECTIVE solar panels provide you with exactly the power you need for your adventures. So you are self-sufficient and mobile and always on the safe side thanks to

reliable, efficient and durable components. But what exactly happens to the solar power you generate? On the following pages, you will find out which **solar storage battery** is perfect for your plans, how to operate electrical devices with the help of an inverter and which practical **all-in-one solutions** exist for ultimate independence and mobility. All this, of course, with reliable products from ECTIVE.





**ECTIVE**

Worry-Free Power Supply.

# SUPPLY BATTERIES

**Up to 170% more capacity!**

P. 118 The new ECTIVE LC-S series



460s

460s

# STARTER BATTERY AND SUPPLY BATTERY

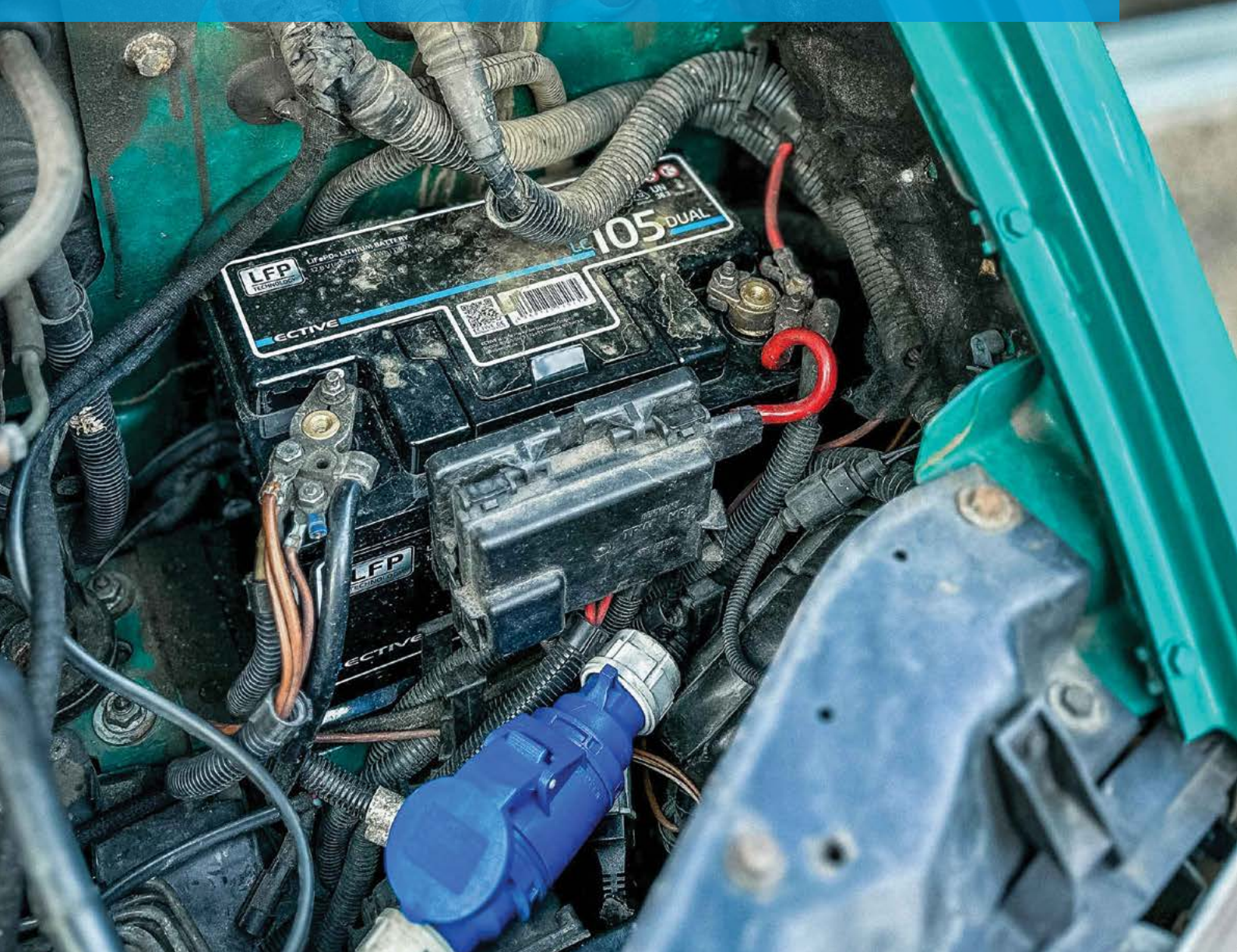
## WHAT'S THE DIFFERENCE?

As they are designed for different tasks, supply batteries and starter batteries differ significantly in terms of structure and performance:

Starter batteries have thinner lead plates with a small gap between them. They are designed for the short-term supply of large amounts of current, start the engine and are then directly recharged. They are not suitable for longer current draw. Starter batteries should be discharged to a maximum of 15 percent.

For supply batteries with lead technology, thicker lead plates are used for long-lasting current drain. Discharges of over 50 percent are not a problem and do not lead to premature wear and tear.

Supply batteries with lithium and iron phosphate (LiFePO<sub>4</sub>) are the modern alternative for the highest requirements and offer numerous advantages. They are the first choice for maximum freedom and independence.



# ECTIVE SUPPLY BATTERIES

What is a supply battery and why do I need it?

Every car has a **starter battery**. When the vehicle is started, this supplies the electrical energy for the engine's starter motor and also powers various consumers such as emergency lighting, the clock or the radio when the vehicle is stationary. The starter battery is charged while driving with the help of the vehicle's alternator. However, if you want to operate other electrical devices, for example in a stationary motorhome, then the starter battery is a very poor choice for the power supply: because if it is discharged, the vehicle is stranded for the time being and you are dependent on external charging or external jump-starting assistance.

This is where the **supply battery** comes into play. As the name suggests, a supply battery supplies electrical consumers with power. This allows you to use your devices even if your vehicle is parked away from campsites with access to shore power. This allows you to operate essential consumers such as the water pump or lighting, and even use

devices such as televisions, notebooks or a coffee machine. ECTIVE supply batteries are largely maintenance-free, durable, reliable and safe. This means you are independent when traveling by boat or camper without having to give up the comforts of home.

However, there are a few things to consider when choosing the right supply battery. The type of electrical consumers and the total power requirement are decisive in determining which model is best suited to your purposes. There are also concerns such as the space available and the weight of the battery. It is therefore important to select a model with the right **battery technology** and optimum technical features.

To make your choice easier and help you find the perfect supply battery, we present the features and specific advantages of the different ECTIVE batteries on the following pages.

## ECTIVE Battery Technologies:

### AGM

#### AGM Batteries

P. 89 | Batteries for power-intensive devices

### Gel

#### Gel Batteries

P. 98 | The solution for smaller consumers

### LFP

#### Lithium Batteries

P. 104 | Advanced premium batteries

### +

#### Accessories

P. 126 | Get everything out of your battery!



# THE RIGHT BATTERY TECHNOLOGY

## Wet, AGM, Gel or Lithium?

When choosing your supply battery, there are two key questions: Firstly, of course, you need to know how much power you actually need to operate your devices. But before you think about the **capacity** of your future battery, you should consider the more fundamental question of **battery technology**. Batteries can be constructed in very different ways and their function can even be based on different chemical reactions. Some battery types are therefore better suited to certain applications, while others are better suited to other uses. Once you have decided on a technology, our calculation tool will help you to determine your actual power requirements and then select a specific model for you.

So what are the different battery technologies, how do they differ and which one is right for you? You can find the answers here:

ECTIVE offers high-quality batteries with three different underlying technologies:

- AGM batteries
- Gel batteries
- Lithium batteries

**Lead-acid batteries** have been the standard for decades. More advanced, valve-regulated lead-acid batteries with VRLA technology have been developed from the classic, so-called **wet battery: AGM** and **gel batteries**. Nowadays, however, modern **lithium batteries** are considered the measure of all things.

Your individual requirements determine which supply battery is perfect for your motorhome or boat. Especially in the area of self-sufficient mobility, it is worth investing in safer and longer-lasting AGM and gel batteries compared to conventional wet batteries. This is particularly the case if you want to connect devices with high power consumption via an inverter.

For the highest demands, however, there is no way around lithium batteries. You can discharge them deeper without the risk of damage, so you can also choose a battery with a lower capacity. ECTIVE LiFePO4 lithium batteries also take up less space, weigh much less and are completely safe. The higher purchase price also pays off over the years, as they last almost 20 times longer than classic wet batteries.

# THE OPTIMAL TECHNOLOGY FOR EVERY APPLICATION

Which battery technology is suitable for what?

A good first approach to choosing battery technology is to ask yourself what you intend to do with the battery and in what context it will be used. The following overview will give you an idea of which battery technology is best suited for which purposes and applications

and how it is superior to conventional wet batteries. As you can see, no matter what you have in mind or which consumers you want to power on your upcoming adventures, ECTIVE has the right battery for your next trip.

Application   Technology	Wet	AGM	Gel	LiFePO <sub>4</sub>
On-board power supply	★	★★	★★	★★★
Wind/solar system	★	★	★★	★★★
UPS systems, alarm systems	★	★★	★★	★★★
Series connection	★★	★★	★★	★★
Parallel connection	★	★★	★★	★★★
Shelf life	★	★★	★★	★★★
Charging time	★	★	★★	★★

 **ECTIVE on YouTube**

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



## BATTERY TECHNOLOGIES COMPARED

How to choose the technology for your DIY project.

Depending on your needs and power supply requirements, AGM, gel or LFP could be the right choice.

# FOCUS ON BATTERY TECHNOLOGIES

The advantages and disadvantages of the different battery technologies.

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## Wet Batteries

Technically simple and therefore particularly inexpensive, wet batteries are often used as affordable **entry-level models**.

However, these conventional batteries quickly reach their limits, especially in mobile power supply and self-sufficiency, where safety, high cycle counts and very specific consumer requirements play a major role.

To meet these special needs, ECTIVE will only offer more advanced technologies in the future:

## AGM Batteries (P. 89)

**AGM** stands for **Absorbent Glass Mat**. This is a glass fibre mat that binds the electrolyte inside the battery like a sponge. This makes AGM batteries leak-proof, gas-free and suitable for installation in sloping positions. In addition, AGM batteries can deliver significantly higher currents for short periods to power-hungry consumers. With their high cycle stability, they also offer excellent value for money. They also have excellent high-current properties, reliably supplying power to demanding devices and charging more quickly.

The advanced **ECTIVE DC-S** models offer even higher cycle counts and are therefore particularly suitable for commercial use or for use with a solar power system.

## Gel Batteries (P. 98)

The addition of silica gives the electrolyte in these batteries a gel-like consistency. This makes the batteries leak-proof and resistant to vibrations. While AGM batteries are particularly suitable for demanding consumers thanks to their excellent high-current properties, gel batteries score points when used with simpler, continuously running devices with lower power requirements. They also have more cycles and a longer service life than AGM batteries.

The ECTIVE range offers different series of gel batteries: in addition to the standard models in the **DC series**, the **DC-S** models offer increased

cycle stability, while the „**Slim**“ models with their slim housing fit into previously unused corners of the vehicle, saving valuable space.

## Lithium Batteries (P. 104)

While wet, AGM and gel batteries are all lead-acid batteries and therefore function in a very similar way, modern lithium batteries use a completely different chemical process. Thanks to this advanced technology, lithium batteries can be designed to be much smaller and lighter than conventional batteries while offering the same capacity.

ECTIVE batteries are a particularly advanced type of lithium battery, namely **lithium iron phosphate accumulators (LiFePO<sub>4</sub>)**. These are extremely safe, gas-free and extremely cycle-stable, making them particularly durable. Another huge advantage is that they offer constant power output until they are almost completely discharged. This means you can really make full use of the specified capacity.









Lithium batteries also impress across the board in terms of application: they are maintenance-free, have shorter charging times and feature an integrated battery management system (BMS) that protects and optimises the battery.

For ultimate convenience and special applications, the ECTIVE range offers different series with optimised extra features. These features and special properties are immediately recognisable from the model name: for example, all batteries with the suffix „**BT**“ in the model name have a Bluetooth function that allows you to monitor the status of your battery via the **connECTIVE app**. The suffix „**LT**“ means that a battery is suitable for operation in low-temperature conditions and can be charged even in extreme conditions of up to -30 °C. The batteries in the **LC S series** offer maximum power with up to 170% more capacity and a particularly high continuous discharge current, while the „**Dual**“ models combine a starting and supply function in one battery.

If you're out on the water, the „**Marine**“ batteries are just right for you: these waterproof batteries power your consumers and start your boat engine.

Last but not least, if space is particularly limited in your vehicle, you should definitely take a

look at our lithium batteries with a special form factor: the space-saving „**Under Seat**“ models can be easily installed under the passenger seat, while the „**Slim**“ batteries can be hidden away in even the narrowest installation spaces, such as behind the wheel arch.

Feature   Technology	Wet	AGM	Gel	LiFePO <sub>4</sub>
Usable capacity	50 %	55 %	65 %	100 %
Number of cycles	ca. 400	500 to 600	700 to 800	> 3000
Working temperature range	-15 to 50 °C	-20 to 40 °C	-20 to 60 °C	-20 to 50 °C
Charging temperature range	0 to 40 °C	0 to 40 °C	-20 to 50 °C	-30 to 45 °C
Warranty	2 Years	2 Years	2 Years	5 Years
Constant power output	★	★	★	★★★
Weight				
Leak-proof	✗	✓	✓	✓
Battery Management System	✗	✗	✗	✓
Maintenance effort				

Now you know all about the different battery technologies and their advantages and disadvantages. Which technology you choose depends, of course, on your plans and requirements. The next step is to determine your

power requirements so that you can select the right model with the necessary capacity.



# THE RIGHT MODEL

When choosing a battery, capacity, voltage and dimensions are particularly important.

## Your power requirements

Now that you are well informed about the available battery technologies, the question arises as to the capacity that your future battery will need to provide. This value, which is given in ampere hours (Ah), depends on the power consumption of the connected devices. You can calculate your requirements using the following simple steps:

First, determine the power consumption of one of your consumers from the type plate or manual. Divide this value by the battery voltage you want to use:

$$\text{Power consumption in watts} / \text{Battery voltage in volts} = \text{Required current in amperes}$$

Next, multiply this value by the time (in hours) you want to use the device each day. This will give you the required capacity:

$$\text{Required electricity (A)} \times \text{switch-on time (h)} = \text{required capacity (Ah)}$$

Repeat these steps for all your consumers and then add up the capacities of all your consumers. To be on the safe side, you should calculate the nominal capacity of your battery as 1.5 times the total sum:

$$\text{Required battery capacity (Ah)} = \text{Capacity of all consumers (Ah)} \times 1,5$$

To find the perfect battery, compare your total requirements with the battery capacities of the technology and series you have chosen. The battery with a capacity that is just **above** your requirements is the best choice for your purposes.



## PRACTICAL TIPS

The safety reserve is particularly important for lead-acid batteries, as you must not allow them to become deeply discharged. With lithium supply batteries, you can utilise almost the entire capacity.

Be sure to realistically estimate how long you want to supply your consumers with electricity independently.

If the supply battery is charged with solar power, you must factor in a reserve for bad weather.

# CALCULATE THE REQUIRED CAPACITY

This will tell you which battery you need for your consumers.

## Example calculation

In a boat or caravan, numerous appliances such as the radio, TV, heating, refrigerator and hairdryer require a reliable power supply. The required capacity of the respective devices is calculated as follows:

Consumers	Demand	Hours (daily)	Required current	Required capacity
TV	50 W, 12 V	2 h	$50 \text{ W} / 12 \text{ V} = 4,2 \text{ A}$	$4,2 \text{ A} \times 2 \text{ h} = 8,4 \text{ Ah}$
Charger	40 W, 230 V	1 h	$40 \text{ W} / 12 \text{ V} = 3,33 \text{ A}$	$3,33 \text{ A} \times 1 \text{ h} = 3,33 \text{ Ah}$
Hair dryer	1200 W, 230 V	0,2 h	$1200 \text{ W} / 12 \text{ V} = 100 \text{ A}$	$100 \text{ A} \times 0,2 \text{ h} = 20 \text{ Ah}$
Refrigerator	120 W, 12 V	6 h	$120 \text{ W} / 12 \text{ V} = 10 \text{ A}$	$10 \text{ A} \times 6 \text{ h} = 60 \text{ Ah}$

These values add up to the required total capacity:

$$8,4 \text{ Ah} + 3,33 \text{ Ah} + 20 \text{ Ah} + 60 \text{ Ah} = 91,73 \text{ Ah}$$

If you now take into account the safety reserve (factor 1.5), this results in a value of **137.6 Ah**.

So you choose the model with the next highest capacity. In this scenario, for example, the **ECTIVE DC 150 AGM battery** would be a good choice (the „150“ in the model name stands for 150 Ah!), or if you want to use an advanced lithium battery, the **LC 150 L**.

**Note:** These figures are only an example. For your calculation, check the power consumption and voltage of the devices you are using and estimate the switch-on time realistically! You will find a calculation aid for your personal requirements on the next page.

Once you have determined your power requirements, it is worth considering whether you have any **space constraints** in your vehicle. Are you running out of space with all your equipment in the camper or boat? Or do you know of any niches that are difficult to access that you haven't been able to use yet? Then you should definitely take a look at our **slim models**. These slim batteries are designed to be installed in a space-saving manner and fit into previously unused storage space. Is a console for a supply battery fitted under your passenger seat? Then take a look at our **LC Under Seat** batteries, which can be easily installed there to save space.



## THE SPECIAL FORM FACTOR

One of the trickiest challenges when converting a camper van is optimising the use of space. We have developed our powerful slim and under-seat batteries so that you can utilise every niche

and every otherwise unused space. This means your power supply runs safely, efficiently and completely behind the scenes.





# YOUR POWER REQUIREMENTS

You can use this table to easily calculate your requirements.

Consumers	Wattage (W)	Required current (A = W / voltage of the battery in V)	Operating time per day (h)	Required capacity (Ah = A × h)
Light: Sleeping area				
Light: Seating area				
Light: Kitchen				
Light: Bathroom				
Light: Alcove				
Light: Other				
Refrigerator				
Pump (fresh water)				
Pump (waste water)				
Ventilation (kitchen)				
Ventilation (toilet)				
Ventilation (bathroom)				
Other				
Television				
Radio				
Heating				
Boiler				
Mixer				
Coffee machine				
Hair dryer				
Shaver				
Smartphone				
Laptop				
Tablet				
<b>Total Ah per day:</b>				



## THE LARGE NUMBER ON THE ECTIVE BATTERY

Once you have decided on a battery technology and determined your daily power requirement in ampere hours – important: including safety reserve! – then it's easy to choose the right ECTIVE battery. The large number on each battery indicates its capacity

in ampere hours. This means that you simply select the battery with the capacity that exceeds your power requirement and you're ready to go!



### EXAMPLE

The ECTIVE LC 105 DUAL would be sufficient for a daily power requirement of up to 105 Ah.

LiFePO<sub>4</sub> LITHIUM BATTERY  
12.8 V | 300 Ah | 3840 Wh

LiFePO<sub>4</sub> LITHIUM BATTERY  
12.8 V | 300 Ah | 3840 Wh





## TIMO'S TIP: Is gel or AGM technology better for me?

As is so often the case, there is no simple right or wrong answer to this question. However, the following tips will usually get you closer to the answer quickly: AGM batteries are ideal for particularly power-intensive consumers, such as coffee machines, hair dryers, kettles or air conditioners, as they are better designed to deliver high currents. Batteries with gel technology, on the other hand, show their advantages above all when they are frequently charged and discharged, i.e. the number of charging cycles is very high. Typical scenario: You mainly use consumers that are less power-intensive, such as a TV or a mobile cooler, and recharge your battery frequently or regularly with the help of your solar system.



# ACTIVE AGM BATTERIES

The solution for demanding consumers.

**AGM batteries** represent an excellent compromise between safety, flexibility, cycle stability and a favorable price. The glass fiber fleece inside the battery („Absorbant Glass Mat“, AGM for short) binds the electrolyte like a sponge. This means that the batteries can also be installed in an inclined position and cannot leak even if damaged. They are also gas-free and therefore suitable for installation indoors. Our new DC AGM Slim models are particularly suitable for this, as their slim form factor allows them to be installed in a particularly space-

saving manner. The safety of AGM technology during operation is complemented by high cycle stability and the corresponding longevity. AGM batteries are also characterized by shorter charging times and significantly better high-current properties, especially in comparison with gel batteries: This means they also reliably supply power to demanding devices. And all this at an excellent price-performance ratio.



## SC AGM

**P. 90** | Solid AGM batteries that can also be used as starter batteries.



## DC AGM

**P. 91** | High-quality deep cycle AGM batteries with special cycle stability.



## DC AGM Slim

**P. 92** | Space-saving AGM batteries with a particularly slim form factor.



## DC S AGM

**P. 94** | Deep cycle batteries with smart display and integrated refill packs.



# ECTIVE SC AGM

The entry-level AGM batteries.

The **SC series** represents the entry-level models of the ECTIVE AGM batteries. With the glass fiber fleece installed inside, these batteries are reliable, vibration-proof, leak-proof,

gas-free and impress with a solid service life at reasonable prices. The SC models can also be used as starter batteries in cars or boats.

## SC 80 AGM



**Capacity:** 80 Ah  
**Cycles (DoD 50%):** 500  
**Size:** 278 × 175 × 190 mm  
**Weight:** 20,70 kg

## SC 95 AGM



**Capacity:** 95 Ah  
**Cycles (DoD 50%):** 500  
**Size:** 315 × 175 × 190 mm  
**Weight:** 23,10 kg

## SC 110 AGM



**Capacity:** 110 Ah  
**Cycles (DoD 50%):** 500  
**Size:** 353 × 175 × 190 mm  
**Weight:** 26,90 kg

## SC 120 AGM



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 500  
**Size:** 392 × 175 × 190 mm  
**Weight:** 29,50 kg



## Technical Specifications

**Usable Capacity:** ca. 50 %

**Voltage:** 12 V

**Temperature Range:** -20 to 40 °C

**Charging Temperature:** 0 to 40 °C

**Cycles (30% DoD):** 800

**Cycles (50% DoD):** 500

**Cycles (80% DoD):** 300

**Cycles (100% DoD):** 200



# ECTIVE DC AGM

High-quality deep-cycle AGM batteries.

The **Deep-Cycle Models** of the ECTIVE AGM batteries are particularly cycle-resistant and are therefore especially recommended if you want to operate particularly power-intensive consumers in your motorhome or camper.

The modern coffee machine, the powerful hairdryer or kettle are good examples of applications in which AGM batteries shine with their high-current capability.

## DC 70 AGM



**Capacity:** 70 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 242 × 175 × 190 mm  
**Weight:** 17,50 kg

## DC 80 AGM



**Capacity:** 80 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 278 × 175 × 190 mm  
**Weight:** 20,70 kg

## DC 95 AGM



**Capacity:** 95 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 315 × 175 × 190 mm  
**Weight:** 23,10 kg

## DC 110 AGM



**Capacity:** 110 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 353 × 175 × 190 mm  
**Weight:** 26,90 kg

## DC 120 AGM



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 394 × 175 × 190 mm  
**Weight:** 29,50 kg

## DC 150 AGM



**Capacity:** 150 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 406 × 173 × 233 mm  
**Weight:** 33,10 kg

## DC 185 AGM



**Capacity:** 185 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 481 170 × 245 mm  
**Weight:** 40,80 kg

## DC 215 AGM



**Capacity:** 215 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 522 × 240 × 226 mm  
**Weight:** 49,00 kg

## DC 245 AGM



**Capacity:** 245 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 522 × 240 × 226 mm  
**Weight:** 56,00 kg

## Technical Specifications

**Usable Capacity:** ca. 55 %

**Voltage:** 12 V

**Temperature Range:** -20 to 40 °C

**Charging Temperature:** 0 to 40 °C

**Cycles (at 30, 50, 80, 100% DoD):** 1450, 700, 400, 300



# ECTIVE DC AGM SLIM

The slim AGM battery as a space-saving alternative.

In campers, motorhomes and boats, the space factor is often a tricky issue in addition to weight. After all, you can never have enough space and a battery does not necessarily have to be installed in a visible place. Due to their design, many motorhomes and boats have free space in the wheel arches or side panels. These are usually too tight for a battery with the usual housing dimensions, but – you've probably already guessed it – perfectly suited for the **ECTIVE Slim models!** These can be optimally installed in previously unused storage space. The terminals on these models are located on

the top of the slim battery front. This means you can easily reach the battery terminals even in very confined spaces. The slim models are available in many common capacities and are in no way inferior to regular AGM batteries in terms of safety and performance. This makes them a real space-saving alternative.

So be sure to check your vehicle for narrow, previously unused niches, because this is exactly where you could place your supply battery in the future.



## DC 60 AGM Slim



**Capacity:** 60 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 291 × 106 × 231 mm  
**Weight:** 15,70 kg

## DC 100 AGM Slim



**Capacity:** 100 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 562 × 114 × 194 mm  
**Weight:** 25,40 kg

## DC 120 AGM Slim



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 410 × 110 × 295 mm  
**Weight:** 31,70 kg

## DC 150 AGM Slim



**Capacity:** 150 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 552 × 110 × 240 mm  
**Weight:** 36,60 kg

## DC 230 AGM Slim



**Capacity:** 230 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 561 × 125 × 318 mm  
**Weight:** 57,00 kg

## Technical Specifications

**Usable Capacity:** ca. 55 %

**Voltage:** 12 V

**Temperature Range:** -20 to 40 °C

**Charging Temperature:** 0 to 40 °C

**Cycles (30% DoD):** 1150

**Cycles (50% DoD):** 700

**Cycles (80% DoD):** 400

**Cycles (100% DoD):** 300



# ECTIVE DC S AGM

The S in the name – „Super“, „Smart“ or „Special“?

The advanced **DC-S series** of ECTIVE AGM batteries offers a whole range of upgrades compared to the regular DC models. With over 15% higher cycle stability (700 cycles on average compared to 600 cycles at 50% DoD), they are even more durable and optimized for particularly frequent charging and discharging. This makes them perfect

for use with solar or wind power systems or applications such as electric wheelchairs, commercial industrial trucks or mobile lifting platforms. The DC-S models also have integrated refill packs to extend their service life, as well as the intelligent **ECTIVE Information System** (E.I.P.). This smart display allows you to easily monitor all relevant battery values.



**Integrated refill packs**  
for extended service life.



**ECTIVE Information System**  
for intelligent, simple operation.

## DC 38 S AGM



**Capacity:** 38 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 194 × 132 × 170 mm  
**Weight:** 10,60 kg

## DC 46 S AGM



**Capacity:** 46 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 196 × 166 × 176 mm  
**Weight:** 13,90 kg

## DC 65 S AGM



**Capacity:** 65 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 228 × 137 × 211 mm  
**Weight:** 16,70 kg

## DC 115 S AGM



**Capacity:** 115 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 333 × 173 × 216 mm  
**Weight:** 32,40 kg

## DC 170 S AGM



**Capacity:** 170 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 484 × 170 × 241 mm  
**Weight:** 47,80 kg

## DC 230 S AGM



**Capacity:** 230 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 522 × 239 × 217 mm  
**Weight:** 63,60 kg

## DC 290 S AGM



**Capacity:** 290 Ah  
**Cycles (DoD 50%):** 700  
**Size:** 520 × 269 × 220 mm  
**Weight:** 73,10 kg

## Technical Specifications

**Usable Capacity:** ca. 60 %

**Voltage:** 12 V

**Temperature Range:** -20 to 40 °C

**Charging Temperature:** 0 to 40 °C

**Cycles (30% DoD):** 1200

**Cycles (50% DoD):** 700

**Cycles (80% DoD):** 450

**Cycles (100% DoD):** 300

# INTEGRATED REFILL PACKS

For increased battery life.

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Integrated **refill packs** are hidden under the blue housing of some ECTIVE AGM and gel batteries. Even with AGM or gel technology, batteries lose water over time. You can counteract this natural process, which occurs more frequently at high temperatures or overcharging, with the refill packs. Open the blue cover in a few simple steps, remove the

six packs and fill the individual valve openings of the battery. This extends the service life of your battery and allows you to benefit from it for longer than with conventional models.

**ECTIVE batteries with refill packs:**  
AGM DC-S, Gel DC-S, Gel DC-SC



# ECTIVE INFORMATION SYSTEM

For simple and intelligent monitoring and control.



The ECTIVE Information System is an intelligent, interactive display used with special ECTIVE batteries. The E.I.S. keeps you informed about the charge level and voltage of your battery at all times. If unusual voltage fluctuations occur, the system

alerts you acoustically and via a message on the display. A day counter also provides information about the duration of use to date.

**ECTIVE batteries with E.I.S.:**  
AGM DC-S, Gel DC-S, Gel DC-SC

# ACTIVE GEL BATTERIES

Reliable power supply for smaller consumers.

In supply batteries with **gel technology**, the electrolyte has a gel-like consistency due to the addition of silica. This means they are leak-proof, resistant to vibrations and can be installed in any position. They also have an even higher cycle stability, greater durability and longer service life than AGM batteries. Their resistance to high temperatures makes them particularly attractive for use in warmer regions. Gel batteries are also ideal for seasonal operation due to their very low self-discharge. As they are gas-free, gel batteries can also

be installed indoors without any problems. Unlike AGM batteries, however, gel batteries are not as suitable for operating many or larger consumers. Instead, they score points when mainly consumers with low power requirements need to be supplied – but permanently. Do you use modern TVs and laptops and can do without your fully automatic coffee machine or electric heater? Then a gel battery is the right choice. This type of battery is also perfect if you prefer to charge your battery using solar energy.



## DC Gel

P. 99 | Dependable and reliable gel batteries.



## DC Gel Slim

P. 100 | Space-saving gel batteries.



## DC S Gel

P. 102 | Gel batteries with refill packs and display.



# ACTIVE DC GEL

Dependable and reliable gel batteries.

The **Deep-Cycle series** are reliable, long-lasting gel batteries. If you want to operate devices with low power

requirements and can do without special features and special form factors, these models offer excellent value for money.

## DC 80 Gel



**Capacity:** 80 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 278 × 175 × 190 mm  
**Weight:** 20,70 kg

## DC 95 Gel



**Capacity:** 95 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 315 × 175 × 190 mm  
**Weight:** 23,10 kg

## DC 110 Gel



**Capacity:** 110 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 353 × 175 × 190 mm  
**Weight:** 26,90 kg

## DC 120 Gel



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 394 × 175 × 190 mm  
**Weight:** 29,50 kg

## DC 120 L Gel



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 330 × 172 × 225 mm  
**Weight:** 28,20 kg

## DC 185 Gel



**Capacity:** 185 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 481 × 170 × 245 mm  
**Weight:** 40,80 kg

## DC 220 Gel



**Capacity:** 220 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 522 × 240 × 226 mm  
**Weight:** 50,00 kg

## DC 300 Gel



**Capacity:** 300 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 522 × 268 × 225 mm  
**Weight:** 64,20 kg

## Technical Specifications

**Usable Capacity:** ca. 65 %

**Voltage:** 12 V

**Temperature Range:** -20 to 60 °C

**Charging Temperature:** -20 to 50 °C

**Cycles (30% DoD):** 1750

**Cycles (50% DoD):** 750

**Cycles (80% DoD):** 450

**Cycles (100% DoD):** 300



# ECTIVE DC GEL SLIM

The slim gel battery as a space-saving alternative.

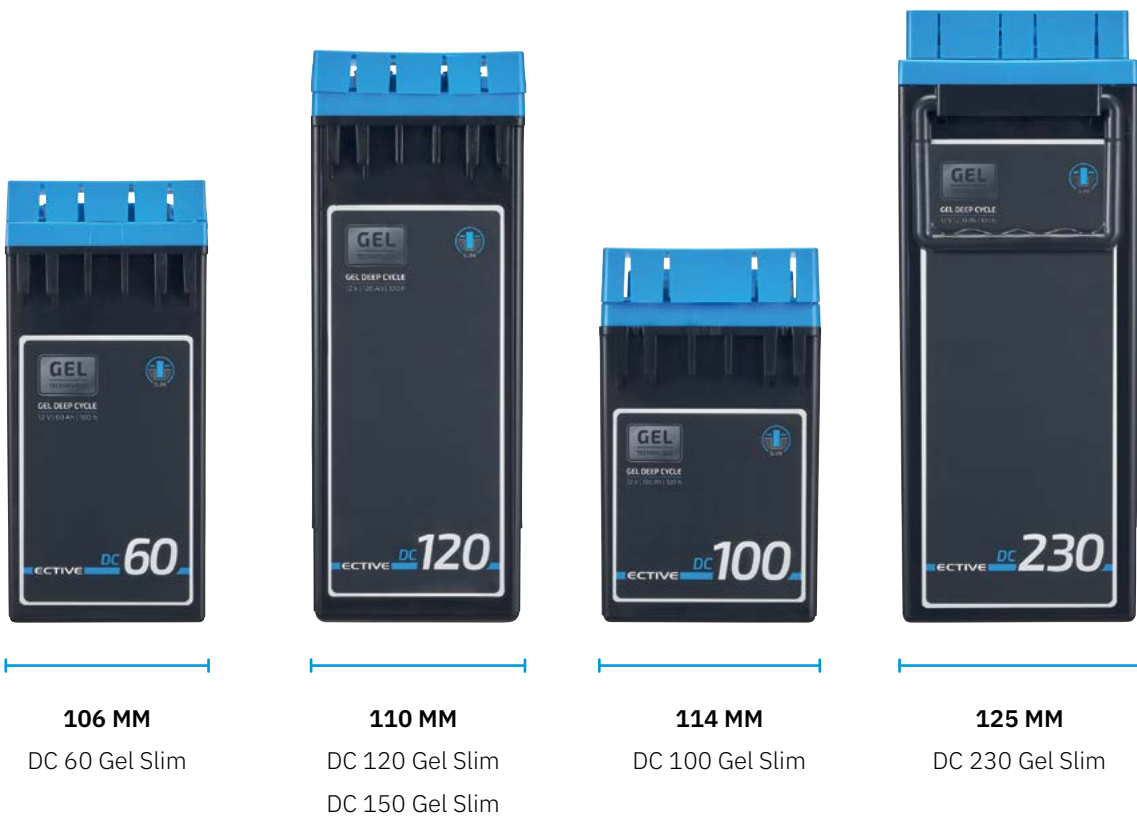
Just like their counterparts with AGM technology, **ECTIVE DC Gel Slim** batteries are perfect for conversion projects where space saving is a priority.

They are particularly popular in campers, motorhomes and boats due to their low weight and unbeatable space factor. The DC Gel Slim models can be concealed in places where regular batteries would not fit, such as in the wheel arches or side panels. This allows you to make perfect use of this previously unused storage space. Thanks to the terminals mounted

on the top of the narrow battery front, you can still easily access and connect the battery.

The DC Gel Slim models come in five sizes with different capacities, offering an optimal, space-saving solution for almost every need. Inside the narrow housing is, of course, high-quality ECTIVE gel technology, just like in regular gel batteries.

So be sure to check if you can find any unused niches in your vehicle that would be suitable for an ECTIVE DC Gel Slim battery!



## DC 60 Gel Slim



**Capacity:** 60 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 291 × 106 × 231 mm  
**Weight:** 15,70 kg

## DC 100 Gel Slim



**Capacity:** 100 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 562 × 114 × 194 mm  
**Weight:** 25,40 kg

## DC 120 Gel Slim



**Capacity:** 120 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 410 × 110 × 295 mm  
**Weight:** 31,70 kg

## DC 230 Gel Slim



**Capacity:** 230 Ah  
**Cycles (DoD 50%):** 750  
**Size:** 561 × 125 × 318 mm  
**Weight:** 57,00 kg

## Technical Specifications

**Usable Capacity:** ca. 65 %  
**Voltage:** 12 V  
**Temperature Range:** -20 to 60 °C  
**Charging Temperature:** -20 to 50 °C

**Cycles (30% DoD):** 1250  
**Cycles (50% DoD):** 750  
**Cycles (80% DoD):** 450  
**Cycles (100% DoD):** 300



# ECTIVE DC S GEL

Long-life gel batteries with refill packs and display.

As with AGM batteries, we offer gel batteries with the suffix „S“ in the model name. These special models offer over 25% higher cycle stability compared to regular DC gel batteries (an average of 950 instead of 750 cycles at 50% DoD) and are therefore ideal for frequent charging and discharging, for example via solar or wind power systems.

Just like the corresponding AGM batteries, these models are therefore particularly suitable for commercial applications. **ECTIVE DC S Gel** Batteries are also equipped with integrated refill packs and the interactive **ECTIVE Information System** (see P. 96 and P. 97) which allows you to easily keep an eye on the status of your battery.



**Integrated refill packs** for extended service life.



**ECTIVE Information System** for intelligent, simple operation.

## Technical Specifications

**Usable Capacity:** ca. 70 %

**Voltage:** 12 V

**Temperature Range:** -20 to 40 °C

**Charging Temperature:** 0 to 40 °C

**Cycles (30% DoD):** 1600

**Cycles (50% DoD):** 950

**Cycles (80% DoD):** 550

**Cycles (100% DoD):** 350

## DC 38 S Gel



**Capacity:** 38 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 195 × 132 × 168 mm  
**Weight:** 9,90 kg

## DC 65 S Gel



**Capacity:** 65 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 228 × 137 × 214 mm  
**Weight:** 16,70 kg

## DC 85 S Gel



**Capacity:** 85 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 260 × 168 × 219 mm  
**Weight:** 22,90 kg

## DC 115 S Gel



**Capacity:** 115 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 333 × 173 × 216 mm  
**Weight:** 30,90 kg

## DC 135 S Gel



**Capacity:** 135 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 406 × 172 × 223 mm  
**Weight:** 36,80 kg

## DC 175 S Gel



**Capacity:** 175 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 495 × 170 × 245 mm  
**Weight:** 43,20 kg

## DC 230 S Gel



**Capacity:** 230 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 522 × 239 × 217 mm  
**Weight:** 60,90 kg

## DC 290 S Gel



**Capacity:** 290 Ah  
**Cycles (DoD 50%):** 950  
**Size:** 520 × 269 × 222 mm  
**Weight:** 73,10 kg

# ECTIVE LITHIUM BATTERIES

The advanced battery technology for all applications.

The already important topic of electrical energy storage is becoming increasingly significant in times of sustainable and climate-friendly electricity generation. One answer to this need is a battery technology that, thanks to its compactness and low weight, can already be found in many areas of our daily lives, such as smartphones and laptops: **lithium batteries**.

Although there are numerous different versions of this technology, which differ in particular in their cell chemistry and the electrode materials used, **lithium iron phosphate** batteries (**LiFePO<sub>4</sub>**), also known as LFP, have proven to be particularly effective and safe.

ECTIVE lithium batteries are also state-of-the-art lithium iron phosphate batteries. These advanced batteries are a longer-lasting, more efficient and lighter alternative to conventional lead-acid power batteries and are suitable for almost all applications in which gel, AGM or wet batteries are used. Although lithium batteries are more expensive to purchase, this higher price quickly pays for itself with appropriate use: calculated over the operating life, the long service life (more than 4,000 cycles at 80% DoD) actually means lower costs than with a comparable lead-acid battery. An integrated **battery management system** (BMS) also reliably protects the battery from factors that could reduce its service life.

Another advantage of lithium batteries is that they deliver power almost until they are completely discharged. This means you can really make the most of the battery's capacity! What's more, thanks to significantly shorter charging times, they are quickly recharged and ready for their next use. At the same time, they are characterised by extremely low self-discharge and can therefore be stored for up to 6 months. LiFePO<sub>4</sub> batteries are also **low-maintenance, completely safe** and perform reliably even at ambient **temperatures above 60 °C**.

ECTIVE's LiFePO<sub>4</sub> batteries are now available in eight series: from the **LC BT** series batteries equipped with a Bluetooth module to the cold-resistant **LC LT** models and the **LC Dual** batteries, which can be used as starter batteries in addition to their supply function.

For a special form factor, choose our **Slim** or **Under Seat** batteries. With these, you can enjoy the advantages of a lithium battery while saving space at the same time!

If you need a lot of power for your power supply, the **LC S** models are the right choice for you: they offer up to 170% more capacity in a compact housing. Finally, our water-resistant **LC Marine LT** boat batteries are ideal for extreme outdoor adventures.



## ALEXEJ'S ADVICE: The Price Factor

**You may be asking yourself: „Aren't lithium batteries far too expensive?“**

Clear answer: No! Of course, a higher purchase price puts many people off at first. However, you should consider a battery over its entire service life. The significantly longer service life of a lithium battery alone beats other technologies hands down. Added to this is the extremely high cycle stability. The costs per cycle (charge/discharge) are therefore actually much lower than with other batteries.

# ALL ACTIVE LITHIUM SERIES

LFP batteries with features such as cold resistance or space-saving form factor.



## LC BT

**P. 108** | Lithium batteries with Bluetooth functionality.



## LC Slim LT

**P. 114** | Cold-resistant lithium batteries with a slim form factor.



## LC S LT Under Seat

**P. 120** | Our most powerful batteries — in the under-seat format.



## LC LT

**P. 110** | Cold-resistant lithium batteries with Bluetooth functionality.



## LC Dual

**P. 116** | Supply and start function in a space-saving DIN housing.



## LC Marine LT

**P. 122** | Powerful, cold- and water-resistant dual-purpose batteries.



## LC Under Seat LT

**P. 112** | Cold-resistant, space-saving under-seat batteries.



## LC S LT

**P. 118** | LiFePO<sub>4</sub> batteries in DIN format with up to 170% more capacity.



# ADVANTAGES OF LITHIUM TECHNOLOGY

All the features of this advanced battery technology at a glance:

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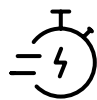
## High cycle stability

More than 4000 cycles at 80% DoD mean lower costs over the operating life.



## Long service life

Lithium batteries have a particularly long service life – and require very little maintenance.



## Short loading times

Lithium batteries are ready for use again at full power much faster than conventional batteries.



## Absolutely safe

LiFePO<sub>4</sub> batteries cannot burn or explode due to their chemical composition.



## Built-in protection

The battery management system (BMS) protects the battery and allows completely worry-free use.



## Extreme heat tolerance

Even at ambient temperatures of over 60°C, the battery performs its service.



## Easy to store

LiFePO<sub>4</sub> batteries can be stored for more than 6 months thanks to extremely low self-discharge.



## Less weight

LiFePO<sub>4</sub> batteries weigh only around a third to a quarter of a comparable conventional battery.



## Bluetooth function

Monitor the status of your LC-BT or LC-LT battery from your smartphone!



## Cold resistance

LC-LT models can also be charged at extremely low temperatures of down to -30°C.

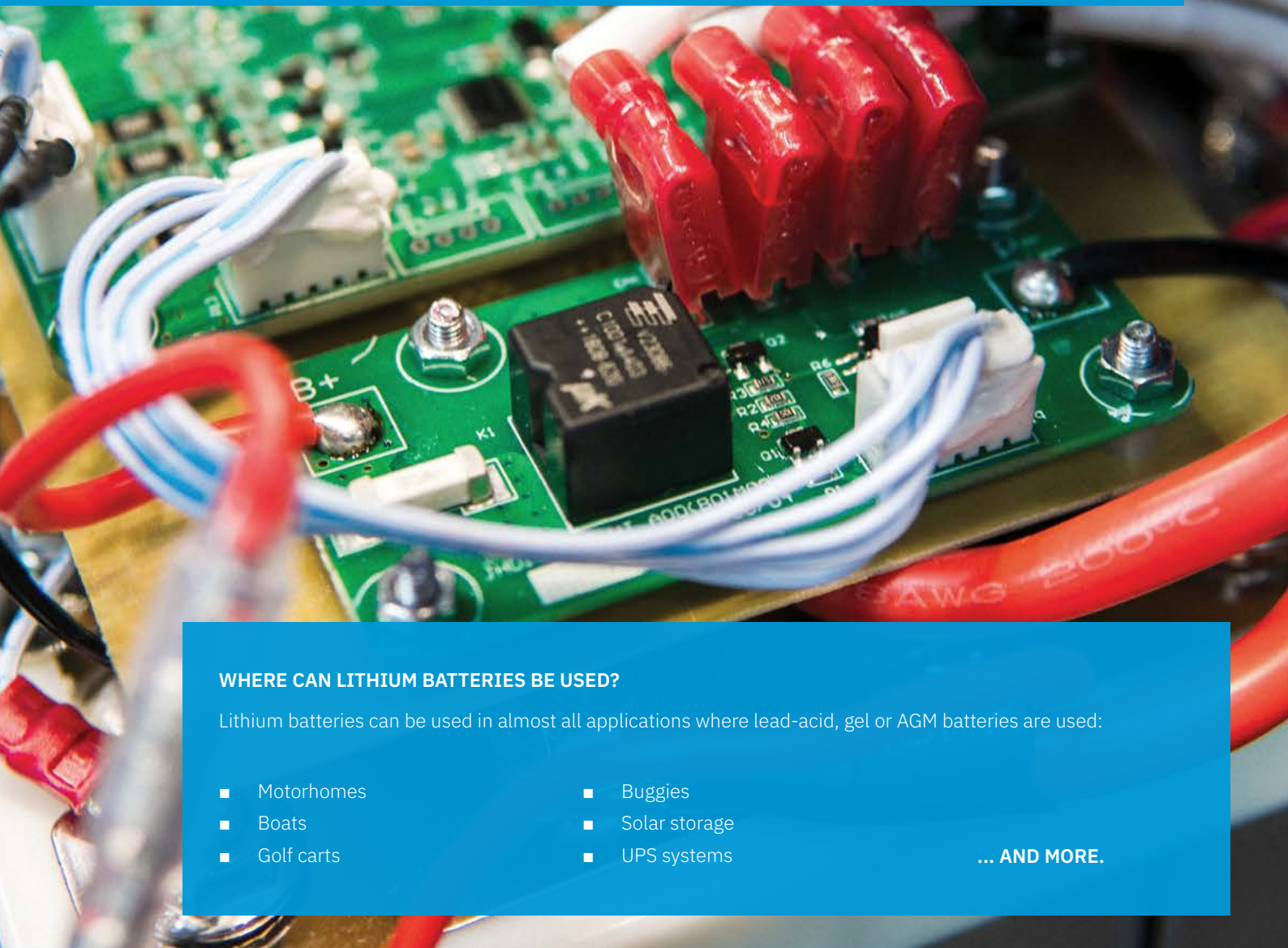
## ARE LITHIUM BATTERIES EVEN SAFE AT ALL?

Occasionally we read about electric car fires that are difficult to extinguish, or about smartphone manufacturers having to recall products due to the risk of explosion. The reason for this is the enormous amount of energy that can be stored in the conventional lithium batteries used. If a short circuit occurs due to overheating or mechanical damage, this energy is released very quickly, which can result in a fire or explosion.

It is therefore all the better that all batteries in the ECTIVE LC series are lithium iron phosphate batteries. These differ from conventional lithium batteries in their design and are absolutely safe thanks to their special cell chemistry: fires and explosions are

impossible. They are also gas-free, you can install them in any orientation and the integrated Battery Management System (BMS) ensures that your battery is always protected and conserved:

- Overload protection
- Deep discharge protection
- Overvoltage protection
- Active cell balancing
- Charge control
- Temperature protection
- Short-circuit protection



### WHERE CAN LITHIUM BATTERIES BE USED?

Lithium batteries can be used in almost all applications where lead-acid, gel or AGM batteries are used:

- Motorhomes
- Boats
- Golf carts
- Buggies
- Solar storage
- UPS systems

... AND MORE.



# ECTIVE LC BT

Lithium batteries with Bluetooth functionality.

The **LC-BT models** of ECTIVE lithium batteries are even more technically sophisticated than the already innovative LC batteries. Hidden under the hood is a Bluetooth module that allows you to keep track of all relevant information about your battery at any time from your smartphone. Download the **connECTIVE app** to your smartphone (available free of charge for Android and iOS) and connect to your lithium battery in seconds. Bluetooth technology does

not require a line of sight and works within a radius of several metres. This is particularly useful if your battery is installed in a hard-to-reach location. In addition to the current charge status and voltage of the battery, the app shows you real-time information on temperature, cycle count and much more. Of course, with an **LC-BT** model, you also benefit from all the advantages and features of the **ECTIVE LC** series.



Use the **connECTIVE app** to keep track of all the important parameters of your Bluetooth-enabled battery from your smartphone or tablet!

## Technical Specifications

**Usable Capacity:** ca. 100 %

**Voltage:** 12,8 V / 25,6 V

**Temperature Range:** -20 to 60 °C

**Charging Temperature:** 0 to 45 °C

**Warranty:** 5 years

**Cycles (30% DoD):** 15000

**Cycles (50% DoD):** 6500

**Cycles (80% DoD):** 4000

**Cycles (100% DoD):** 2000

## LC 20L BT



**Capacity:** 20 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 180 × 75 × 170 mm  
**Weight:** 3,00 kg

## LC 50L BT



**Capacity:** 50 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 196 × 165 × 175 mm  
**Weight:** 6,80 kg

## LC 75L BT



**Capacity:** 75 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 260 × 168 × 223 mm  
**Weight:** 9,80 kg

## LC 80 BT



**Capacity:** 80 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 278 × 175 × 190 mm  
**Weight:** 10,20 kg

## LC 100 BT



**Capacity:** 100 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 353 × 175 × 190 mm  
**Weight:** 11,20 kg

## LC 100L BT



**Capacity:** 100 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 308 × 169 × 230 mm  
**Weight:** 12,50 kg

## LC 150L BT



**Capacity:** 150 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 485 × 170 × 240 mm  
**Weight:** 20,20 kg

## LC 200L BT



**Capacity:** 200 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 485 × 170 × 240 mm  
**Weight:** 25,20 kg

## LC 250L BT



**Capacity:** 250 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 520 × 268 × 228 mm  
**Weight:** 33,00 kg

## LC 300L BT



**Capacity:** 300 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 520 × 268 × 228 mm  
**Weight:** 37,50 kg

**5 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.



# ECTIVE LC LT

Lithium batteries with Bluetooth functionality and cold resistance.

The **ECTIVE LC LT** series is the answer to a problem that primarily affects those who enjoy travelling in winter temperatures, are fans of winter camping or operate a solar system even in the colder months: at temperatures below 0 °C, ordinary lithium batteries can no longer be charged. The „**LT**“ in the model name stands for „Low Temperature“ – and that’s exactly what these batteries are for: for use in particularly low ambient temperatures. These cold-resistant

batteries can be charged even at minus **30°C**, allowing you to use a high-quality lithium battery in your camper on your next winter trip.

Of course, the LC LT batteries are in no way inferior to our regular lithium batteries. They even feature the integrated Bluetooth module of the BT series, so you can use the **connECTIVE app** on your smartphone to track how your battery is coping with sub-zero temperatures!

**5 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – Because we are convinced of our products’ quality.



## COLD RESISTANCE

The ECTIVE LC-LT models can be reliably charged at temperatures as low as **-30°C**. This makes them the perfect companion in winter or on your journey through particularly challenging climate zones.

## BLUETOOTH-APP

Monitor battery values such as charge level, temperature and number of cycles from your smartphone.

## LC 80 LT



**Capacity:** 80 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 278 × 175 × 190 mm  
**Weight:** 10,20 kg

## LC 100 LT



**Capacity:** 100 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 353 × 175 × 190 mm  
**Weight:** 11,20 kg

## LC 100L LT



**Capacity:** 100 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 318 × 165 × 230 mm  
**Weight:** 12,50 kg

## LC 150 LT



**Capacity:** 150 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 353 × 175 × 190 mm  
**Weight:** 15,50 kg

## LC 200L LT



**Capacity:** 200 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 485 × 170 × 240 mm  
**Weight:** 25,20 kg

## LC 300L LT



**Capacity:** 300 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 520 × 268 × 228 mm  
**Weight:** 37,50 kg

## Technical Specifications

**Usable Capacity:** ca. 100 %  
**Voltage:** 12,8 V / 25,6 V  
**Temperature Range:** -20 to 60 °C  
**Charging Temperature:** -30 to 45 °C  
**Warranty:** 5 years

**Cycles (30% DoD):** 15000  
**Cycles (50% DoD):** 6500  
**Cycles (80% DoD):** 4000  
**Cycles (100% DoD):** 2000



# ECTIVE LC UNDER SEAT LT

Use the space under the passenger seat.

In motorhomes, space saving plays an important role alongside weight. Many manufacturers therefore equip their vehicles with a console under the passenger seat that offers space for one or even two supply batteries. With the models in the **ECTIVE LC Under Seat LT series**, the proven quality of the models with LiFePO<sub>4</sub> technology is now also available as an under-seat battery with compact dimensions. This allows you to make optimum use of the space under the passenger seat while benefiting from the well-known advantages of ECTIVE lithium batteries. The latest generation of under-seat models deliver

a particularly high continuous discharge current of 250 A, which means that even operating appliances such as coffee machines, induction hobs or air conditioning systems is no longer a problem. Thanks to the integrated **BM X battery monitor**, the under-seat batteries are also extremely easy and convenient to operate: via the interactive LCD display or via Bluetooth with the connECTIVE app on your smartphone.

The suffix „**LT**“ refers to the low-temperature function of these under-seat batteries: they can be charged at temperatures as low as -30 °C!

## LC 150L Under Seat LT



**Capacity:** 150 Ah  
**Cycles (DoD 50%):** 6500  
**Size:** 353 × 301 × 152 mm  
**Weight:** 19,0 kg

## LC 200L Under Seat LT



**Capacity:** 200 Ah  
**Cycles (DoD 50%):** 6500  
**Size:** 353 × 351 × 152 mm  
**Weight:** 21,60 kg

**5 YEARS WARRANTY**

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.

## Technical Specifications

**Usable Capacity:** ca. 100 %

**Voltage:** 12,8 V

**Continuous discharge current:** 250 A

**Temperature Range:** -20 to 60 °C

**Charging Temperature:** -30 to 45 °C

**Warranty:** 5 years

**Cycles (30% DoD):** 15000

**Cycles (50% DoD):** 6500

**Cycles (80% DoD):** 4000

**Cycles (100% DoD):** 2000



## ECTIVE LIVES SUSTAINABILITY

The production of advanced lithium batteries requires rare earths and other precious resources. That is why we strive to design ECTIVE batteries to be as environmentally friendly and sustainable as possible.

To this end, we have developed our under-seat batteries to be 100% repairable and the cells completely replaceable. This allows us to extend the life of our products and conserve our planet's resources.



# ECTIVE LC SLIM LT

The slim lithium battery with Bluetooth as a space-saving alternative.

If you need to save space in your vehicle but don't have a console under the passenger seat to accommodate an **LC Under Seat LT** battery, don't worry! There is most likely some hard-to-reach storage space or a narrow niche somewhere in your motorhome or boat, such as in the wheel arches or side panelling. **ECTIVE LC Slim LT** lithium batteries were developed for precisely such locations. With their compact form factor, you can install them in places in your vehicle that you previously couldn't use effectively. This allows you to use a lithium battery with all its advantages even in limited space. The **LC Slim LT** batteries deliver an extremely high continuous discharge current of 250 A and can even power particularly deman-

ding consumers such as coffee machines, air conditioning systems or induction hobs. Incidentally, you can supply DC consumers directly via the corresponding connections.

The latest generation of our slim lithium batteries bears the suffix „**LT**“. This low-temperature function allows safe charging in extreme environments at temperatures as low as -30 °C.

Last but not least, LC Slim LT batteries also feature an integrated ECTIVE BM X battery monitor. This always displays all relevant data about your battery: on the stylish colour display or conveniently via Bluetooth in the connECTIVE app.



### Practical connections

- 50 A Anderson input/output
- 12 V on-board power socket for small consumers
- USB-C + USB QC 3.0

### Integrated battery monitor

- Informative colour display
- Control via app

## Technical Specifications

**Usable Capacity:** ca. 100 %

**Voltage:** 12,8 V

**Continuous discharge current:** 250 A

**Temperature Range:** -20 to 60 °C

**Charging Temperature:** -30 to 45 °C

**Warranty:** 5 years

**Cycles (30% DoD):** 15000

**Cycles (50% DoD):** 6500

**Cycles (80% DoD):** 4000

**Cycles (100% DoD):** 2000

## LC 120 Slim LT



**Capacity:** 120 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 466 × 126 × 290 mm  
**Weight:** 19,90 kg

## LC 150 Slim LT



**Capacity:** 150 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 466 × 126 × 290 mm  
**Weight:** 20,00 kg

## LC 200 Slim LT



**Capacity:** 200 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 466 × 136 × 320 mm  
**Weight:** 25,10 kg

## LC 300 Slim LT



**Capacity:** 300 Ah  
**Voltage:** 12,8 V  
**Cycles (DoD 50%):** 6500  
**Size:** 466 × 166 × 320 mm  
**Weight:** 32,00 kg

**5 YEARS WARRANTY**

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.



## ECTIVE LIVES SUSTAINABILITY

Our ECTIVE-LC-SLIM-LT batteries are also designed to be 100% repairable: the cells can be completely replaced. This allows us to extend the service life of our products and conserve our planet's resources.



# ACTIVE LC DUAL

Supply and start function in a space-saving DIN housing.

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With the **LC Dual** series, we are adding true all-rounders to our LiFePO<sub>4</sub> battery range. Just like our regular LC batteries, they supply power to demanding consumers and are perfect for self-sufficient power supply. But they have another ace up their sleeve: with

their extremely high cold start currents of up to 1650 A, you can easily use the Dual batteries as starter batteries. This saves you space and weight, whether on the water, on your off-road adventures at temperatures as low as **-20 °C**, or simply in everyday life.

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## LC 75 Dual



**Capacity:** 75 Ah / 960 Wh  
**Max. cont. discharge current:** 75 A  
**CCA:** 825 A  
**Size:** 242 × 175 × 190 mm  
**Weight:** 6,70 kg

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## LC 105 Dual



**Capacity:** 105 Ah / 1344 Wh  
**Max. cont. discharge current:** 105 A  
**CCA:** 1100 A  
**Size:** 278 × 175 × 190 mm  
**Weight:** 8,90 kg

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## LC 120 Dual



**Capacity:** 120 Ah / 156 Wh  
**Max. cont. discharge current:** 120 A  
**CCA:** 1320 A  
**Size:** 315 × 175 × 190 mm  
**Weight:** 10,20 kg

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## LC 135 Dual



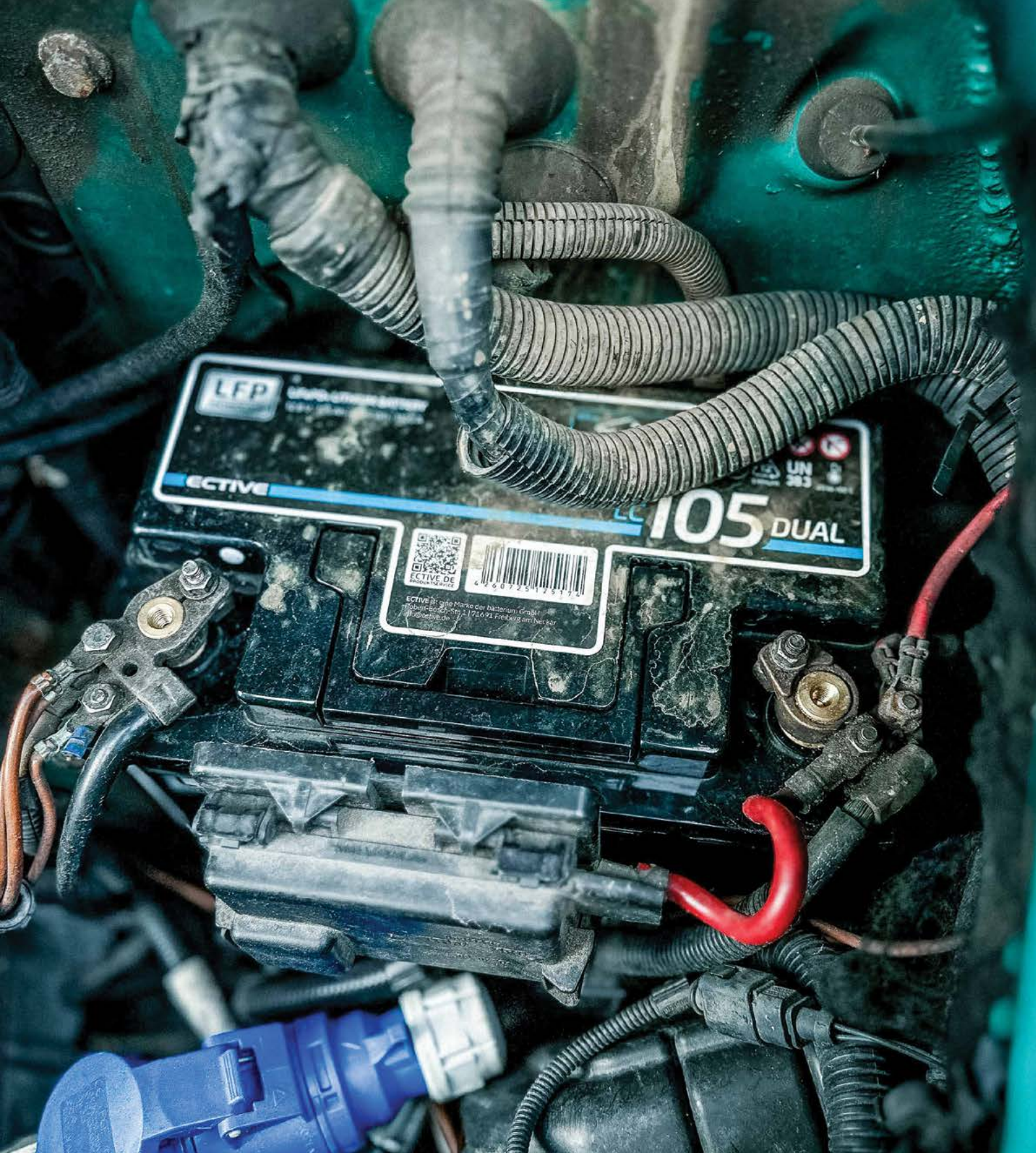
**Capacity:** 135 Ah / 1728 Wh  
**Max. cont. discharge current:** 135 A  
**CCA:** 1485 A  
**Size:** 353 × 175 × 190 mm  
**Weight:** 11,50 kg

---

## LC 150 Dual



**Capacity:** 150 Ah / 1920 Wh  
**Max. cont. discharge current:** 150 A  
**CCA:** 1650 A  
**Size:** 392 × 175 × 190 mm  
**Weight:** 12,80 kg



## Technical Specifications

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Usable Capacity: ca. 100 %

Voltage: 12,8 V

Temperature Range: -20 to 60 °C

Charging Temperature: -10 to 55 °C

Cycles (50% DoD): 5000

Cycles (80% DoD): 2000



# ECTIVE LC S LT

LiFePO<sub>4</sub> batteries in DIN format with up to 170% more capacity.

Our new **S LT**-LiFePO<sub>4</sub> batteries combine maximum capacity, unbeatable continuous power and reliable cold resistance in the smallest possible housing.

The LC 270 S impressively demonstrates how far lithium battery technology has advanced: it offers 170% more power than a conventional LiFePO<sub>4</sub> battery in a 100 Ah DIN housing of the same size. This makes it ideal for compact power supply in campers, motorhomes or tiny houses, where every square centimetre counts.

With extremely high continuous discharge currents of up to 300 A, even the most

demanding setups and power-intensive consumers are reliably supplied with energy – even under extreme conditions: the integrated 120 W heating element allows charging at temperatures as low as –30 °C, and the innovative **ECTIVE CoreTech BMS** ensures smart, safe operation, including active and passive cell balancing.

Thanks to the integrated Bluetooth 7.0 module, LC S LT batteries are compatible with the connectIVE app, allowing you to monitor your high-tech battery at any time from your smartphone or tablet.



### Smart and well connected:

The integrated **Bluetooth function** allows you to conveniently monitor your battery levels from your smartphone using the **connectIVE app**.

The **CAN bus interface** enables easy integration of the LC S battery into the vehicle electronics.

Thanks to smart BMS with **active and passive cell balancing**, the cells are balanced evenly in terms of capacity. This ensures maximum efficiency, less wear and tear, and a longer battery life.

## Technical Specifications

**Usable Capacity:** ca. 100 %

**Temperature Range:** –20 to 60 °C

**Charging Temperature:** –30 to 55 °C

**Warranty:** 7 Years

**Cycles (30% DoD):** 13500

**Cycles (50% DoD):** 10000

**Cycles (80% DoD):** 6800

**Cycles (100% DoD):** 4000

## LC 105 S LT



**Capacity:** 105 Ah / 1344 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 150 A  
**Size:** 278 × 175 × 190 mm  
**Weight:** 10,40 kg

## LC 185 S LT



**Capacity:** 185 Ah / 2368 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 200 A  
**Size:** 353 × 175 × 190 mm  
**Weight:** 18,50 kg

## LC 270 S LT



**Capacity:** 270 Ah / 3456 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 200 A  
**Size:** 359 × 178 × 190 mm  
**Weight:** 27,00 kg

## LC 460 S LT



**Capacity:** 460 Ah / 5888 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 300 A  
**Size:** 522 × 244 × 223 mm  
**Weight:** 39,30 kg

**7 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.



## Our smart battery management system

The innovative ECTIVE CoreTech BMS enables up to 300A continuous discharge current, active & passive cell balancing and is designed for high capacities in compact housings. This means that even power-intensive consumers such as induction hobs or electric grills can be operated without any problems with the LC S LT series.



# ECTIVE LC S LT UNDER SEAT

Our most powerful batteries – in the under-seat format.

While our **LC S LT** series combines impressive power with a compact form factor, we take this approach to the extreme with the under-seat models of the **LC S Under Seat LT** series.

Thanks to their extremely compact design and recessed poles, they fit under most standard driver or passenger seats – even though they are equipped with all the impressive features of the S-LT series: high continuous discharge currents, heating function for use in extremely

cold environments, Bluetooth and the innovative **CoreTech BMS** with active and passive cell balancing. Add to that simply unbeatable power: the LC 540 S LT is currently the most powerful battery in the ECTIVE range. Whether in a camper van, motorhome or tiny house, our LC S Under Seat LT batteries disappear inconspicuously under the seat, creating space for what really matters: freedom, adventure and self-sufficient energy whenever you need it.

## LC 320 S LT Under Seat



**Capacity:** 320 Ah / 4096 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 200 A  
**Size:** 355 × 224 × 190 mm  
**Weight:** 32,00 kg

## LC 540 S LT Under Seat



**Capacity:** 540 Ah / 6912 Wh  
**Voltage:** 12,8 V  
**Max. cont. discharge current:** 300 A  
**Size:** 355 × 350 × 190 mm  
**Weight:** 46,00 kg

**7 YEARS WARRANTY**

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.

## Technical Specifications

**Usable Capacity:** ca. 100 %  
**Temperature Range:** –20 to 60 °C  
**Charging Temperature:** –30 to 55 °C  
**Warranty:** 7 Years

**Cycles (30% DoD):** 13500  
**Cycles (50% DoD):** 10000  
**Cycles (80% DoD):** 6800  
**Cycles (100% DoD):** 4000



## ECTIVE LIVES SUSTAINABILITY

The batteries in the ECTIVE LC S Under Seat series are designed with screw-on housings to make them particularly easy to repair. This allows us to extend the service life of our batteries and conserve our planet's resources.



# ECTIVE LC MARINE LT

Extremely powerful and robust marine batteries with LiFePO<sub>4</sub> technology.

With the new **ECTIVE LC Marine LT** lithium batteries, we have added true all-rounders to our range: thanks to proven LiFePO<sub>4</sub> technology, they are **extremely lightweight** and their **IP67**-rated housing allows them to be used in extreme environments. Protected against dust, water and corrosion, the Marine batteries are – as the name suggests – particularly suitable for use on boats, yachts and ships.

The inner workings of our **Marine LT** batteries are just as impressive as their **robust housing**: the particularly high continuous discharge currents of up to 300 A effortlessly power power-intensive consumers such as air conditioning systems, induction cookers, pumps and radio equipment. And with **extremely strong peak discharge currents**

of up to 1000 A, Marine LT batteries can also be used as starter batteries if required, even for medium to large outboard motors, inboard motors, sailboat drives and jet skis.

Like all our premium lithium batteries, the batteries in the **ECTIVE LC Marine LT** series are equipped with numerous safety and convenience features: From built-in protection against overheating, high cycle stability and an intelligent BMS to easy maintenance, low-temperature function and convenient monitoring of the most important operating parameters via app. This means you can rely completely on your boat battery and concentrate on the important things in life: your adventures at sea.

## LC 100 Marine LT



**Capacity:** 100 Ah  
**Cycles (DoD 50%):** 6500  
**Size:** 308 × 168 × 211 mm  
**Weight:** 13,50 kg

## LC 200 Marine LT



**Capacity:** 200 Ah  
**Cycles (DoD 50%):** 6500  
**Size:** 485 × 172 × 232 mm  
**Weight:** 22,50 kg

## LC 300 Marine LT



**Capacity:** 300 Ah  
**Cycles (DoD 50%):** 6500  
**Size:** 500 × 250 × 230 mm  
**Weight:** 38,00 kg

**5 YEARS WARRANTY**

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.



## ECTIVE LIVES SUSTAINABILITY

Our ECTIVE LC Marine LT marine batteries are also designed to be 100% repairable: the cells can be completely replaced. This allows us to extend the lifetime of our products and conserve our planet's resources.



NO MATTER IF DUST...



...OR WATER:



OPTIMAL PROTECTION WITH IP67.



## Features & Safety Functions

- Extremely high continuous discharge currents
- Low-temperature function: charging down to  $-30\text{ }^{\circ}\text{C}$
- Short charging times
- Bluetooth function
- Protection Class IP67: waterproof, dustproof and corrosion-resistant
- Intelligent BMS
- Overheating and explosion protection
- Long service life and high cycle stability

## Technical Specifications

**Usable Capacity:** ca. 100 %

**Voltage:** 12,8 V

**Continuous discharge current:** 300 A

**Temperature Range:**  $-20$  to  $60\text{ }^{\circ}\text{C}$

**Charging Temperature:**  $-30$  to  $45\text{ }^{\circ}\text{C}$

**Warranty:** 5 years

**Cycles (30% DoD):** 15000

**Cycles (50% DoD):** 6500

**Cycles (80% DoD):** 4000

**Cycles (100% DoD):** 2000

# BATTERY ACCESSORIES

Optimize the operation of your supply batteries!

Our **battery accessories** help you to keep your batteries in the best possible condition so they can serve you for as long as possible. Whether it's the **ECTIVE BM X battery monitor**, that

is microprocessor-controlled to calculate the battery status, or the **ECTIVE cut-off relay**, that prevents unwanted discharge of your battery, you can always rely on our battery accessories.



## Isolating Relay IR 140

**P. 127** | Provides reliable protection against discharging your starter battery.



## Battery Monitor BM X

**P. 128** | Informs you precisely about the status of your battery.



## TIMO'S TIP: Two batteries or a single large one?

**Should I rather buy one battery with 200 Ah capacity or two batteries with 100 Ah each?** From a purely electro-technical point of view, the use of a single battery is generally the better choice. There can be minimal differences „inside“ the battery even with two batteries from the same batch due to the production process alone. However, if you consider the question of redundancy or reliability, you are better protected against possible failures with two individual batteries. So there is no clear answer here. Rather, you should make your decision based on how important reliability is to you. But you should also consider the factors of space and weight when making your choice.



# ECTIVE CUT-OFF RELAY IR 140

Protect your starter battery from unnoticed discharge.

The **ECTIVE IR 140 cut-off relay** is a clever electronic component that may seem rather inconspicuous but can prevent unpleasant surprises when starting your vehicle. The unwanted – and often unnoticed – discharge of the starter battery.

If you use a supply battery in your camper, you probably charge it via a shore power connection or your solar panels on the roof. On long journeys, however, the vehicle's alternator can also be used to supply power. This component, which is connected to the combustion engine, initially ensures that your starter battery is charged. Excess energy can be fed to the supply battery with an appropriate charger to charge it. However, this poses a problem. Once you have reached your destination or interrupted your journey, the supply battery's reserves will eventually run out because you will be

using the coffee machine, TV etc. extensively again. Once the supply battery is exhausted, the starter battery is used to supply your consumers. The next morning comes as a nasty surprise: your vehicle no longer starts. This is exactly the scenario that the IR 140 cut-off relay from ECTIVE prevents. The relay creates an „electrical one-way street“, so to speak, which allows the supply battery to charge but prevents the starter battery from discharging. This means you can use your devices without having to worry about a flat starter battery.

- Designed for continuous loads of up to 140 A
- LED display signals the charge of the supply battery
- Complete set including cables and small parts for easy installation

## Isolating Relay IR 140



**Nominal voltage:** 12 V  
**Switch-on voltage:** 13,3 V  
**Cut-off voltage:** 12,8 V  
**Continuous power:** 140 A  
**Maximum power:** 170 A  
**Dimensions:** 67 × 67 × 53 mm





# ECTIVE BATTERY MONITOR BM X

Precise information about the status of your battery – also via Bluetooth.

With the new BM X battery monitor, ECTIVE has developed an innovative and extremely versatile display that gives you a complete overview of your battery at all times.

The BM X replaces the previous models in the ECTIVE BM series. It is compatible with batteries of different technologies, voltages and capacities and is now used as a permanently installed display module in some advanced ECTIVE products: for example, in the latest generation of the ECTIVE AccuBox and the space-saving batteries of the ECTIVE LC Slim BT and ECTIVE LC Under Seat BT series.

With its digital color display, the ECTIVE BM X is not only extremely stylish, but also extremely informative. How much juice is left in the battery? Have your solar modules really fully charged the battery? How long will the capacity be sufficient to continue operating your connected loads? The ECTIVE BM X now provides you with the answers to all these questions.

Operating your battery monitor is simple and convenient. Once the BM X has been set up for your battery, it provides you with all the relevant information at all times:

- Battery capacity
- Voltage
- Power
- Power consumption
- Remaining runtime

With the BM X, you are also even safer on the road: if the voltage or capacity falls below a threshold value you have set, the battery monitor sounds an alarm.

Another major advantage of the BM X is its convenient **app-based operation**: connect the ECTIVE BM X via Bluetooth to the **connECTIVE** app on your smartphone or tablet and keep an eye on all battery values at any time.

## ECTIVE BM X battery monitor including 500 A shunt and cable



## Technical Specifications

**Battery voltage range:** 10 to 120 V

**Battery capacity range:** 10 to 1000 Ah

**Rated operating current:** 500 A

**IP protection class:** IP20

**Dimensions:** 115 × 75 × 23 mm

**Weight:** 0,75 kg



Compatible battery technologies:

Wet

Gel

AGM

LFP



ECTIVE on YouTube

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



**THE BATTERY MONITOR BM X**  
for all batteries and capacities

Alexej explains what the ECTIVE BM X can do and how to operate it.



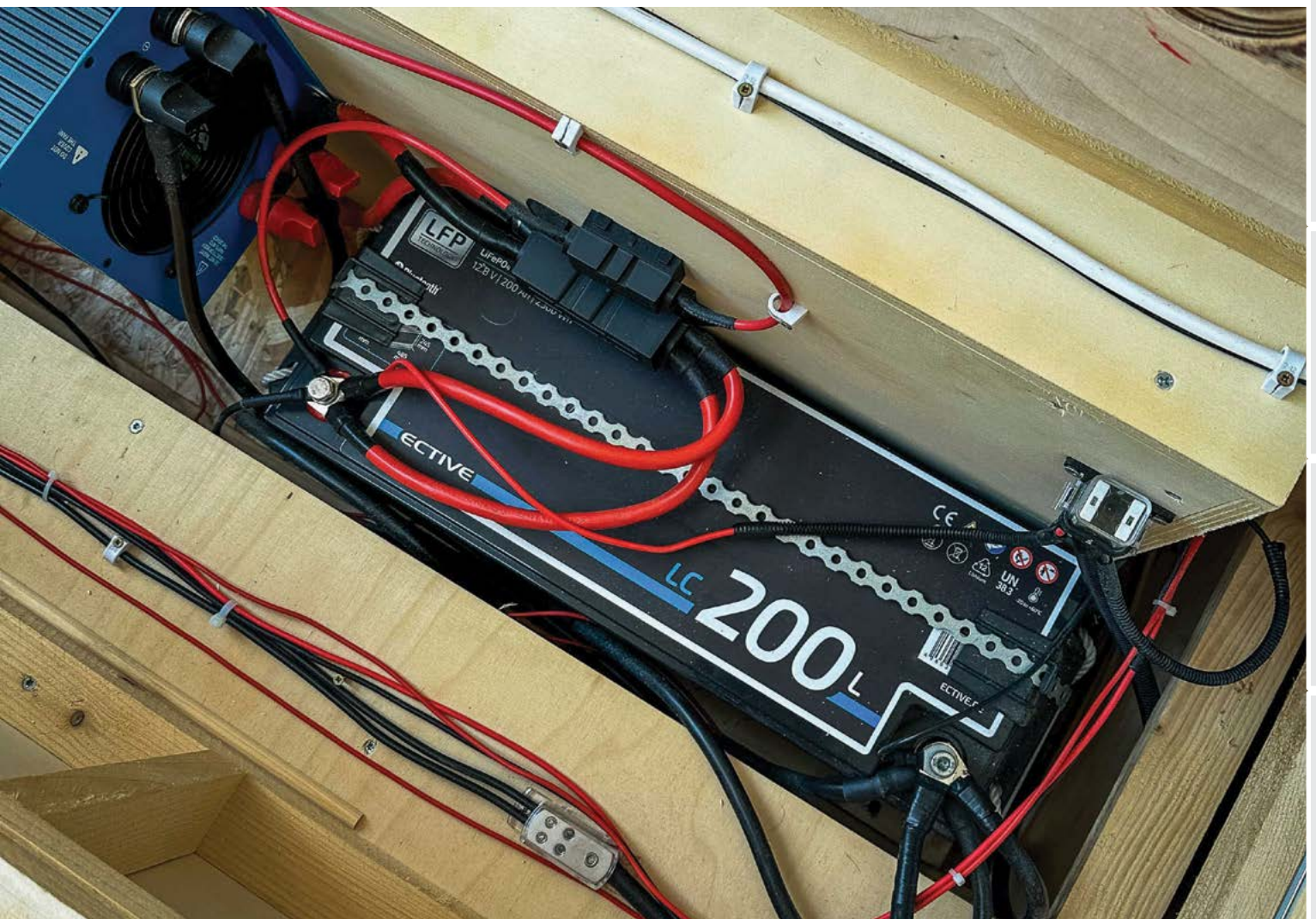
# SUPPLY BATTERIES IN THE ECTIVE ECOSYSTEM

Charge batteries and operate devices.

As you can see, the ECTIVE range has supply batteries for every conceivable need and purpose. The big advantage: ECTIVE batteries are perfectly matched to the devices in our other product ranges. In combination with one of our inverters, you can operate your suppliers reliably and safely while using our numerous charging options to recharge your battery efficiently. Whether via a shore connection, while driving with the help of a charging booster or via your solar system

using solar energy – with ECTIVE, your power supply is simple and worry-free.

If you are looking for a completely mobile power supply for on-the-go, then take a look at our all-in-one solutions! ECTIVE devices from BlackBox and AccuBox series have powerful lithium batteries and numerous practical features and connections that are integrated into their robust housings. And these power banks are even portable in XXL format!





**ACTIVE**

Keep your batteries fully charged.

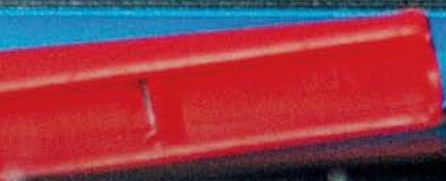
# CHARGING TECHNOLOGY

**Efficient charging for all battery technologies.**

P. 144 Multiload PRO



MULTILOAD **75** PRO





# ECTIVE CHARGING TECHNOLOGY

What is important when charging?

## Always full batteries

To ensure that you are truly self-sufficient with your motorhome or boat and that the power you need is available at all times, your supply battery must be reliably charged.

This is done with a charger that supplies the battery with the necessary energy gently and efficiently. But be careful: different battery technologies require differently coordinated charging processes. Fortunately, the ECTIVE range has the right model for all purposes.

## The right charging characteristic

In order to charge a supply battery as quickly as possible but also gently, the charging process should be adapted to the battery technology used. Such a careful charging process is made possible by certain charging characteristics. These regulate how the current is passed on to the battery and at what point during charging. All ECTIVE chargers use intelligent, microprocessor-controlled IUoU charging characteristics in which the charging process runs through appropriately optimized stages. The devices of the **ECTIVE Multiload** series are suitable for use with gel, AGM, wet and calcium batteries. You can set the device to the right technology with a single button. If you are using an advanced LiFePO<sub>4</sub> battery, choose a **Multiload LFP**, which is specially designed for use with lithium batteries. If you want to remain flexible, the particularly versatile models in the **Multiload S** series are the right choice: they charge both conventional

and LiFePO<sub>4</sub> batteries reliably and efficiently.

The **Multiload PRO** models are the flagships of our range of chargers. They charge batteries of all technologies particularly quickly and gently.

## Perfectly protected

All ECTIVE chargers have comprehensive protective functions to ensure your batteries are charged safely. Thanks to state-of-the-art functions such as reverse polarity protection, short-circuit protection, overvoltage protection and overheating protection, you can charge your batteries with peace of mind. The robust housing of the Proload series also offers protection against mechanical influences. In accordance with protection class IP65, these models are also resistant to water jets.

## Full speed ahead: With the ECTIVE charging boosters

The **BB Battery Boosters** from ECTIVE allow you to charge your onboard battery while driving: your vehicle's combustion engine drives a generator that supplies the starter battery with power. Our charging boosters use the surplus energy to additionally charge the supply battery. Perfect for long journeys in „Nomad Style“. The models in the **SBB** series also have an integrated MPPT solar charge controller. This allows your solar panels to continue charging the battery when you interrupt your journey or when you arrive at your destination!

## TIMO'S TIP: The right charging device

My tip for choosing the right battery charger: Make sure you can select the right end-of-charge voltage on the device! This will ensure that your battery is charged effectively and gently. With ECTIVE chargers, you can manually select the technology of your battery. If you are using a lithium battery, make sure your charger also supports this technology. Your battery will thank you with a longer service life.



# CHARGERS AND CHARGING BOOSTERS

Optimal charging for your supply batteries.



## Multiload

P. 138 | Lightweight chargers for conventional batteries.



## Multiload LFP

P. 140 | Lightweight chargers specifically designed for lithium batteries.



## Multiload S

P. 142 | Modern chargers for all technologies.

FOR THE PROS



## Multiload PRO

P. 144 | Powerful charging for all technologies.



## Ladebooster

P. 146 | Efficient charging while driving.



## ALEXEJS NOTE: The correct charging current

My rule of thumb: to ensure that your battery lasts as long as possible, the charging current (in amps) should be approximately 10% of the battery capacity (in ampere hours). For a battery with a capacity of 150 Ah, you are on the safe side with a charger that delivers around 15 A.

# CHARGING BEHAVIOUR OF DIFFERENT BATTERY TECHNOLOGIES

Batteries of different technologies require optimised charging characteristics for efficient and gentle charging:

**Wet batteries** with a final charging voltage of 14.4 to 14.7 V are attractively priced and suitable for small consumers, but wear out quickly when deeply discharged. Incorrect charging also causes a memory effect.

**AGM batteries** require a charging voltage of up to 14.8 V and must be charged using the IUoU characteristic curve.

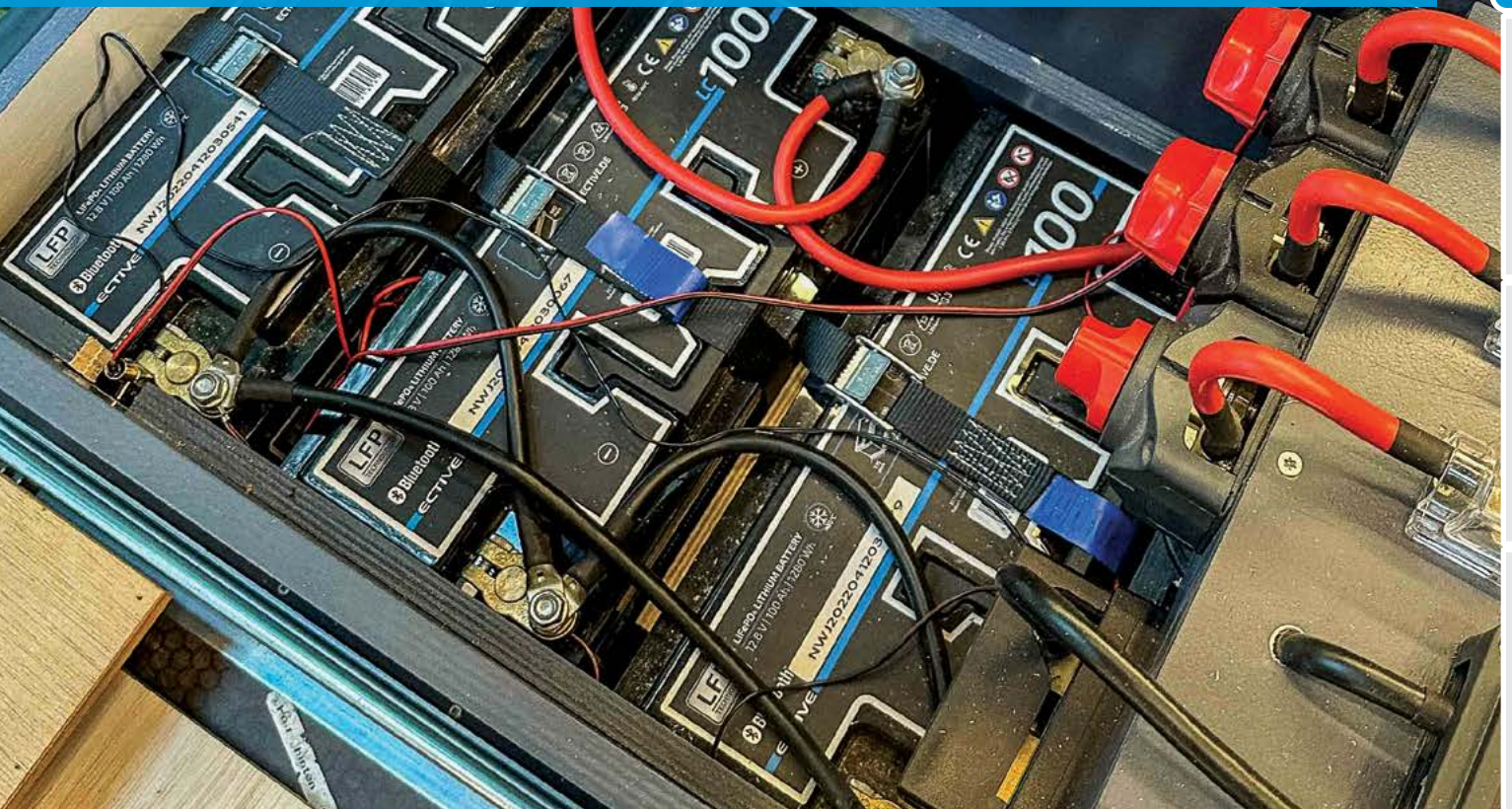
For **gel batteries**, the optimum charging voltage is between 14.1 and 14.4 V; they are also charged using the IUoU characteristic curve. The end-of-charge phase is longer than for AGM batteries.

**Lithium batteries** (LiFePO<sub>4</sub>) have a final charging voltage of 14.6 V; the charger used must not have a desulphation function. The temperature sensor serves as a charge limiter and prevents charging at temperatures below 0 °C, for example. The LiFePO<sub>4</sub> characteristic curve charges up to the final charging voltage and then reduces the voltage.

Unlike conventional devices with W or IU characteristic curves, all ECTIVE chargers charge with intelligent IUoU characteristic curves. The chargers in the **Multiload** series are designed for wet, AGM, gel and calcium batteries. You can easily select the charging mode for your battery at the touch of a button. For the more demanding lithium batteries, we have developed the **Multiload LFP**, which is perfectly adapted to their special requirements. If you want to remain flexible and be able to charge all these battery types with just one device, choose the particularly versatile **Multiload S** devices or the premium models of the **Multiload PRO** series.

The individual models in the series differ in terms of the voltage they support, the rechargeable battery capacity, the exact charging characteristic and the maximum charging current. As a general rule, the greater the charging power of the charger, the faster the supply battery will be charged.

So no matter what battery technology you use and how big your battery is, with the right ECTIVE charger you can ensure optimal and gentle charging.





# ECTIVE MULTILOAD

Versatile chargers with 8 charging levels.

**ECTIVE Multiload chargers** charge your battery with an eight-stage charging process that converts 220-240 V AC to 12 V DC using state-of-the-art switching mode technology. This is a very careful charging process that gives your battery a longer life and better performance compared to using conventional chargers. In addition, the Multiload charger reliably protects

your battery from overcharging: it can therefore remain connected to the battery indefinitely.

Unlike conventional chargers, which use heavy transformers to convert the current, the Multiload models use electronic components. This makes the charger lighter and more compact without sacrificing performance.

## Compatible Battery Technologies:

Wet

Gel


AGM

Ca

LFP



## Practical controls

With the button , you can easily choose between the different battery technologies to optimally charge your battery.

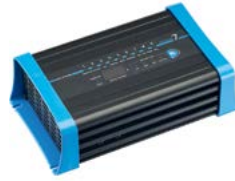
With a glance at the integrated charging status display, you are also always informed about which phase of the charging process your battery is in and whether a defect or problem has occurred.

## Multiload 5



**Output voltage:** 12 V  
**Max. charging current:** 5 A  
**Battery capacity:** 35-100 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,05 kg

## Multiload 7



**Output voltage:** 12 V  
**Max. charging current:** 7 A  
**Battery capacity:** 50-140 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,05 kg

## Multiload 10



**Output voltage:** 12 V  
**Max. charging current:** 10 A  
**Battery capacity:** 70-200 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,10 kg

## Multiload 12



**Output voltage:** 12 V  
**Max. charging current:** 12 A  
**Battery capacity:** 80-240 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,10 kg

## Multiload 15



**Output voltage:** 12 V  
**Max. charging current:** 15 A  
**Battery capacity:** 100-300 Ah  
**Size:** 217 × 116 × 62 mm  
**Weight:** 1,28 kg

## Multiload 20



**Output voltage:** 12 V  
**Max. charging current:** 20 A  
**Battery capacity:** 134-400 Ah  
**Size:** 217 × 116 × 62 mm  
**Weight:** 1,28 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.



## Safety Features

- Reverse polarity protection
- Short circuit protection
- Protection in case of missing battery connection
- Shutdown protection
- Overvoltage protection
- Overheating protection
- Automatic cooling fan



# ECTIVE MULTILOAD LFP

Versatile chargers with 8 charging levels for lithium batteries.


Like the regular ECTIVE Multiload chargers, the **ECTIVE Multiload LFP** models also charge with an eight-stage charging process. However, the efficient and careful charging process is specially designed to supply modern lithium batteries. The intelligent charging system prevents damage to the battery and ensures,

for example, that it is only charged at suitable temperatures. The LFP models are in no way inferior to the other Multiload devices in terms of their compactness and comprehensive protective functions, and they also have a helpful status display that keeps you constantly informed about the charging process.

## Compatible Battery Technologies:



## Practical controls

Simply use the button  to switch the Multiload LFP charger on and off.

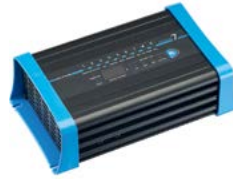
With a glance at the integrated charging status display, you are also always informed about which phase of the charging process your battery is in and whether a defect or problem has occurred.

## Multiload 5 LFP



**Output voltage:** 12 V  
**Max. charging current:** 5 A  
**Battery capacity** 10 - 50 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,05 kg

## Multiload 7 LFP



**Output voltage:** 12 V  
**Max. charging current:** 7 A  
**Battery capacity** 14 - 70 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,05 kg

## Multiload 10 LFP



**Output voltage:** 12 V  
**Max. charging current:** 10 A  
**Battery capacity** 20 - 100 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,10 kg

## Multiload 12 LFP



**Output voltage:** 12 V  
**Max. charging current:** 12 A  
**Battery capacity** 24 - 120 Ah  
**Size:** 197 × 116 × 62 mm  
**Weight:** 1,10 kg

## Multiload 15 LFP



**Output voltage:** 12 V  
**Max. charging current:** 15 A  
**Battery capacity** 30 - 150 Ah  
**Size:** 217 × 116 × 62 mm  
**Weight:** 1,28 kg

## Multiload 20 LFP



**Output voltage:** 12 V  
**Max. charging current:** 20 A  
**Battery capacity** 40 - 200 Ah  
**Size:** 217 × 116 × 62 mm  
**Weight:** 1,28 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.



## Safety Features

- Reverse polarity protection
- Short circuit protection
- Protection in case of missing battery connection
- Shutdown protection
- Overvoltage protection
- Overheating protection
- Automatic cooling fan



# ECTIVE MULTILOAD S

Maximum charge for all battery technologies – in a state-of-the-art housing.

With the two new models in the „S“ series, we are adding true all-rounders to the ECTIVE Multiload charger range: they come in a particularly robust housing and offer extremely high charging currents for all common battery technologies. Whether classic wet, AGM, gel or state-of-the-art lithium batteries, the **Multiload S** charges with an optimised, gentle 9-stage

charging process. This ensures that your batteries have a long service life despite fast charging, not least thanks to comprehensive safety and protection functions such as temperature and voltage compensation. The detailed LCD display allows you to keep an eye on both the charge and any potential errors at all times.

## Multiload 16 S



**Output voltage:** 12 / 24 V  
**Max. charge current:** 16 A  
**Battery capacity:** 20 - 350 Ah  
**Size:** 298 × 152 × 87 mm

## Multiload 24 S



**Output voltage:** 12 / 24 V  
**Max. charge current:** 24 A  
**Battery capacity:** 50 - 500 Ah  
**Size:** 298 × 152 × 87 mm

### Compatible Battery Technologies:

Wet

Gel

AGM

Ca

LFP



## Features & Safety Functions

- Intelligent nine-stage charging process
- Automatic battery testing
- Temperature compensation
- Voltage compensation
- Short circuit protection
- Reverse polarity protection
- Overvoltage protection
- Overheating protection





# ECTIVE MULTILOAD PRO

Safe and efficient charging for all battery technologies.

The chargers in the **ECTIVE Multiload PRO** series have been developed for maximum flexibility. The models reliably supply batteries of various technologies: **wet, AGM, gel, SLA, LiFePO<sub>4</sub>** and sodium-ion batteries. The high charging capacity and multi-stage, intelligent charging process mean **short and gentle charging times**.

Both shore power and a generator can be used as a power source, with the Multiload PRO impressing with its high efficiency in converting AC to DC (> 80%). Controls on the device also allow manual settings for an absolutely safe and efficient charging process, even when batteries are connected in parallel or in series.

## Multiload 37 PRO



**Output voltage:** 12 / 24 V  
**Max. charge current:** 37,5 / 18,75 A  
**Battery capacity:** 35 - 150 Ah  
**Size:** 261 × 160 × 70 mm  
**Weight:** 1,80 kg

## Multiload 75 PRO



**Output voltage:** 12 / 24 V  
**Max. charge current:** 75 / 37,5 A  
**Battery capacity:** 75 - 300 Ah  
**Size:** 261 × 160 × 70 mm  
**Weight:** 2,65 kg

## Multiload 150 PRO



**Output voltage:** 12 / 24 V  
**Max. charge current:** 150 / 75 A  
**Battery capacity:** 150 - 600 Ah  
**Size:** 307 × 180 × 82 mm  
**Weight:** 4,00 kg

### Compatible Battery Technologies:

Wet

Gel

AGM

Ca

SIB

LFP

**3 YEARS**  
WARRANTY

Our **ECTIVE Warranty** — Because we are convinced of our products' quality.



## Safety Features

- Reverse polarity protection
- Short circuit protection
- Protection in case of missing battery connection
- Shutdown protection
- Overvoltage protection
- Overheating protection
- Automatic cooling fan

The switch on the back of the housing allows you to switch the charger on and off and conveniently select between 12 and 24 V. You can also connect an external battery temperature sensor there to ensure optimal charging.



You can use DIP switches to select the correct battery charging voltage for your battery. You can also use the adjustment wheel to regulate the charging current. Status LEDs also inform you whether the Multiloader is charging properly.





# ECTIVE LADEBOOSTER

Powerful charging converters for charging while driving.

---

The „**BB**“ in these practical ECTIVE devices stands for „Battery Booster“. This is a special type of battery charger as it allows you to fully charge your onboard battery while driving. Whether you are heading for your next destination in a motorhome, caravan or boat, you don't have to worry about finding a utility power connection first thing on arrival. Instead, you can use your consumers immediately with a fully charged supply battery.

## Fire up the alternator!

The alternator is an electrical generator in your vehicle that is driven by the combustion engine and thus provides electrical power for the starter battery and consumers. Depending on how long you drive and the state of charge, your starter battery will be fully charged at some point. With a charge booster, you ensure that the energy that continues to be generated is not wasted, but can instead be used to charge the supply battery – with

maximum precision and efficiency. In this battery-to-battery process, in which the starter battery is used to charge a supply battery, the charge booster permanently monitors both batteries. This means that the starter battery is not discharged and the supply battery is also protected from overcharging. Depending on the charging booster model, a starter battery with 12 or 24 V can be used in combination with supply batteries with 12 or 24 V.

The **ECTIVE SBB** charge boosters also have an integrated MPPT solar charge controller with high efficiency. This means that the supply battery continues to be charged with the help of your solar modules even if you interrupt your journey or have arrived at your destination.

A charging booster is therefore a real must-have, especially for long trips in „nomad style“, giving you even more flexibility and more remote destinations.

## Compatible Battery Technologies:

Wet

Gel

AGM

Ca

LFP

## Technical Specifications

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Nominal battery voltage (DC): 12 V

Overvoltage protection: 15,5 V

Own consumption: 24 mA

Activation control input „D+“: 8 to 16 V

Input voltage range Start II: 10,5 to 16 V

Input overvoltage switch-off Start II: 16,5 V



# CHARGING WHILE DRIVING

Charge your supply battery while on the road!

---

## A must-have for lithium fans

More and more users and vanlife fans have recognized the immense advantages of lithium batteries and are using this battery technology in their vehicles. A major advantage of these batteries is their low internal resistance, which allows very high charging currents. In principle, this allows the battery to be charged much faster, but alternators can be overtaxed as they are not designed for use with these batteries. The result for vehicles with regulated alternators from the Euro 5 standard upwards: the supply battery is insufficiently charged or not charged at all. The ECTIVE charge booster solves this problem and is therefore indispensable if you use a lithium battery and your vehicle has at least the Euro 5 standard.

But even without a lithium battery, the regulated alternator can cause problems in vehicles with Euro 5 or higher standards, as it automatically reduces its output when the starter battery is fully charged. The ECTIVE charge boosters solve this problem with the help of the connection for the so-called D+ signal. In this way, the charge booster can continue to call up the required power from the alternator and thus fully charge your supply battery.

## No line losses thanks to optimal charging characteristic

With the help of a precise charging characteristic, the ECTIVE Battery Booster automatically increases and decreases the voltage to the required values to optimally charge your battery. In addition, the charging booster compensates for line losses and strong voltage fluctuations in the alternator, which often occur in vehicles. Connected consumers in your vehicle are also protected from voltage fluctuations and overvoltage.

The intelligent charging process takes place in three optimized steps (please use factor 2 for 24 V systems):

- During boost charging, charging initially takes place at the maximum current until the battery voltage has reached the constant voltage charging value.
- The current then begins to drop and constant voltage charging mode is started. The charging time in this phase is 2 hours on average, depending on the battery.
- If the battery voltage is above 12.6 volts, constant voltage charging is ended and trickle charging is initiated, which maintains the battery charge without overcharging.



## Safety Features

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The ECTIVE Battery Boosters are equipped with a variety of safety functions to ensure you don't have any nasty surprises with your starter battery or your supply battery:

- Protection against overvoltage or undervoltage of the main battery
- Undervoltage protection of the starter battery
- Overload protection of the B2B charge
- Reverse protection
- Overheating protection
- PV overload protection (for SBB models)
- PV overvoltage protection (for SBB models)

# CHARGING BOOSTER WITH SOLAR CHARGE CONTROLLER

Charge your batteries even when the vehicle is stationary – with solar power.

## The SBB models:

### With integrated solar charge controller

The “S” in the model names of the **SBB Battery Boosters** stands for “Solar”, as these models have an integrated MPPT solar charge controller with a higher efficiency than conventional PWM charge controllers in addition to the range of

functions of the BB models. The SBB 30 model processes a solar power of up to 250 watts and generates a charging current of 20 A. The SBB 60 model has a maximum PV output of 430 watts and a charging current of 30 A.





# ECTIVE BB CHARGING BOOSTERS

Recharge your batteries while travelling.

## BB 25 12 V to 24 V



Max. charge current Batt. I: 25 A  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 24 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 240 × 190 × 70 mm

## BB 30 12 V to 12 V



Max. charge current Batt. I: 30 A  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 230 × 190 × 70 mm

## BB 50 24 V to 24 V



Max. charge current Batt. I: 50 A  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 24 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 240 × 190 × 70 mm

## BB 60 12 V to 12 V



Max. charge current Batt. I: 60 A  
 Supply battery  
 nominal capacity: 90 - 560 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 100 Ah  
 Size: 240 × 190 × 70 mm

## BB 60 24 V to 12 V



Max. charge current Batt. I: 60 A  
 Supply battery  
 nominal capacity: 90 - 560 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 100 Ah  
 Size: 240 × 190 × 70 mm

## BB 30 Compact



Max. charge current Batt. I: 30 A  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 147 × 118 × 41 mm



# CONNECTIVE SBB CHARGING BOOSTERS

Charging boosters with an integrated MPPT solar charge controller.

## SBB 25 12 V to 24 V



Max. charge current Batt. I: 25 A  
 Max. charge current Solar Batt. I: 30 A  
 Max. solar current 24 A  
 Max. solar voltage 50 V  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 24 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 240 × 190 × 70 mm

## SBB 30 12 V to 12 V



Max. charge current Batt. I: 30 A  
 Max. charge current Solar Batt. I: 20 A  
 Max. solar current 15 A  
 Max. solar voltage 50 V  
 Supply battery  
 nominal capacity: 45 - 280 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 60 Ah  
 Size: 230 × 190 × 70 mm

## SBB 50 24 V to 24 V



Max. charge current Batt. I: 50 A  
 Max. charge current Solar Batt. I: 30 A  
 Max. solar current 24 A  
 Max. solar voltage 50 V  
 Supply battery  
 nominal capacity: 90 - 560 Ah  
 Supply battery  
 Nominal voltage: 24 V  
 Starter battery  
 Min. rated capacity: 100 Ah  
 Size: 240 × 190 × 70 mm

## SBB 60 12 V to 12 V



Max. charge current Batt. I: 60 A  
 Max. charge current Solar Batt. I: 30 A  
 Max. solar current 26 A  
 Max. solar voltage 50 V  
 Supply battery  
 nominal capacity: 90 - 560 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 100 Ah  
 Size: 240 × 190 × 70 mm

## SBB 60 24 V to 12 V



Max. charge current Batt. I: 60 A  
 Max. charge current Solar Batt. I: 50 A  
 Max. solar current 40 A  
 Max. solar voltage 50 V  
 Supply battery  
 nominal capacity: 90 - 560 Ah  
 Supply battery  
 Nominal voltage: 12 V  
 Starter battery  
 Min. rated capacity: 100 Ah  
 Size: 240 × 190 × 70 mm

# CHARGING BOOSTER ACCESSORIES

Optimize your power supply with useful accessories.

## Simple installation and useful additional connections

In addition to reliable connections for your starter and supply battery, the battery boosters from ECTIVE also have practical accessory connections. You select the battery technology (lead-acid/AGM/gel or lithium) with a DIP switch. This way, the charge booster knows which charging characteristic your supply battery requires.

The Battery Booster has a connection for the **ECTIVE Charge Monitor** and the external **ECTIVE Bluetooth module**. This means you always have all the relevant information and the charge status of your battery in view on the monitor or your smartphone. There is also a connection for a cable sensor, which

enables even more precise measurement of the battery voltage. This helps the Battery Booster to compensate for the voltage loss on the charging cable. Do you use several supply batteries? No problem, because then you connect the connection labeled „Ss-“ to the negative terminal of the first battery and the connection labeled „Ss+“ to the positive terminal of the second or last battery.

You can also connect the **ECTIVE temperature sensor** and connect it to your vehicle's main battery. This gives the Battery Booster even more precise values. Or would you like to tap into your vehicle's D+ signal? The charge boosters from ECTIVE also offer a suitable connection for this.



### ECTIVE CM 1

The stylish ECTIVE CM 1 is very easy to install so that you are always well informed about your power supply.



### ECTIVE BT 1

The BT 1 Bluetooth dongle allows you to keep an eye on the values and charge status of your battery from your smartphone or tablet.



### Battery temperature sensor

The sensor enables the most efficient and gentle charging possible based on the current battery temperature.



ECTIVE on YouTube

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



## CHARGE BOOSTER OR ISOLATING RELAY?

Charging the supply battery in the camper

The choice depends on your own requirements and the battery technologies to be charged.



## ALEXEJ'S ADVICE

If you use a **lithium battery** as the supply battery in your vehicle, a charge booster is virtually mandatory, regardless of which Euro standard your vehicle meets. For vehicles with a Euro 5 standard or higher with a regulated alternator, you should also always use a charge booster – regardless of the battery technology.





ECTIVE on YouTube

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



## CHARGING CLASSIC CARS WHILE DRIVING

Things to keep in mind.

How to safely charge the supply battery of a classic car using the alternator.



# CHARGING IN THE ECTIVE ECOSYSTEM

The battery is charged! Now what?

Regardless of which battery technology you use and whether you charged your supply battery while stationary using **shore power** or **solar power**, or whether it was charged directly while driving using a **battery booster**: the electricity stored in this way should, of

course, be used as efficiently as possible. And to supply your electrical consumers with energy in the best possible way, it is best to rely on the versatile **inverters** from ECTIVE. These ensure that your devices receive exactly the power they need to function properly and safely.





**ECTIVE**

The right power for your devices.

# INVERTERS

**Maximum power for your devices.**

P. 180 The new ECTIVE SSI PRO inverters.



15 PRO

SSI 10 PRO

RC



## HIGH-QUALITY POWER: THE PURE SINE WAVE

Simple electrical consumers without chips, integrated circuits, processors or LED are usually content with a „coarser“ curve, the so-called modified sine wave. Conventional inverters are a sufficiently reliable and inexpensive solution for such devices. However, more and more – even supposedly simple – technical devices have clever additional functions that make many household appliances, tools or consumer electronics really convenient. In addition to computers and modern televisions, these include fully automatic coffee machines and even hair dryers and toasters. All

these consumers have higher demands on the „quality“ of the electricity with which they are supplied. Under an oscilloscope, this quality can be seen in the form of a curve that always runs evenly: the sine curve or sine wave. On closer inspection, the sine wave is almost perfectly smoothed, without any disturbing „steps“. The inverters in the ECTIVE SI, CSI, TSI and SSI series all supply this high-quality current with a pure sine wave, which therefore corresponds to the current that comes out of your socket at home.

# ECTIVE INVERTERS

What does an inverter actually do?

In short, an inverter converts **direct voltage** into **alternating voltage**. As supply batteries and solar modules supply DC voltage, but many larger electrical devices require AC voltage, the purpose of an inverter quickly becomes clear: it allows you to supply your electrical appliances with high-quality power when you are on the move, just like at home from the socket.

In your home, you don't worry about the "quality" of the electricity coming out of the wall. You can connect any device that requires electricity without even thinking about it. This is exactly what an inverter allows you to do wherever you previously had to do without it. In motorhomes or boats, you will often only find 12-volt sockets. And in your remote garden shed, there may be no power connection at all.

If you want to use a supply battery for power when you are out and about – and perhaps even charge it with solar power

in a cost-effective and environmentally friendly way – you cannot simply connect your TV or coffee machine, as these devices require a standard 230-volt socket.

This is where your inverter comes into play. It converts direct current into alternating current and ensures that the voltage changes from 12 volts to 230 volts, thus providing the "right juice".

This voltage change from 12 to 230 volts is not particularly complicated to begin with. However, in order for the electricity to really flow as "cleanly" and reliably as modern electronic devices require, the current needs a constant frequency of exactly 50 hertz. The inverter converts the previously very rough and step-like curve into a curve with the desired frequency. This ensures the safe and reliable operation of the appliances.

**3 YEARS**  
WARRANTY

## Our ECTIVE Warranty

We are convinced of the quality of our products! That is why we grant a voluntary manufacturer's warranty of three years on all our inverters in addition to the statutory warranty.



ECTIVE on YouTube

[youtube.com/@ective\\_strom](https://youtube.com/@ective_strom)



## 230 V SOCKET IN DIY CAMPER

Why do I need an inverter?

Alexej explains the core of a self-sufficient power supply and how an inverter works.

# ELECTRICITY LIKE FROM THE SOCKET

Simple power supply like at home – but on the move.

The ECTIVE product range comprises four regular series of inverters and three „Pro“ series. The series each differ in terms of their extended functions: From the solid basic models of the **SI series**, which reliably supply high-quality alternating current, to the **TSI series**, which are equipped with a mains priority circuit and a bypass function, allowing connection to a generator or the mains. The advanced **CSI series** also features an integrated battery charger for

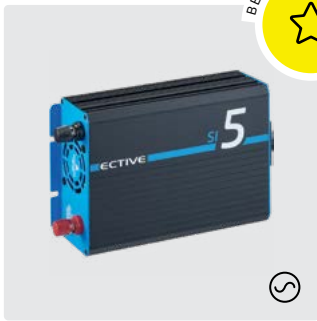
charging utility batteries, while the flagship **SSI series** models also have a built-in MPPT solar charge controller. All ECTIVE inverters are also equipped with useful functions that protect you and your connected devices.

We have newly developed the „**Pro**“ models of the TSI, CSI and SSI series. These devices impress with additional convenience and safety functions, as well as higher charging values.



## TIMO'S TIP: The right power

**What power should my inverter provide?** First calculate your maximum power consumption in watts. We explain how to do this on the next page. Based on the value determined in this way, you then select the inverter with the next highest continuous output. This way you are on the safe side and still have reserves for consumers that you would like to purchase in the future or if you would like to replace an existing consumer with a device with a higher output.



### SI

P. 164 | The entry-level models for high-quality alternating current.



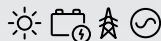
### TSI

P. 166 | Inverter with mains and battery priority circuit.



### CSI

P. 170 | Inverter with integrated IUoU charger.



### SSI

P. 176 | Premium inverter with integrated MPPT solar charge controller.



### RC Fernbedienungen

P. 184 | The right remote control for every inverter. The right remote control for every inverter.



### TSI PRO

P. 168 | The PRO version of the TSI inverters.



### CSI PRO

P. 174 | The PRO version of the CSI inverters.



### SSI PRO

P. 180 | The PRO version of the SSI inverters.



FOR THE PROS

ECTIVE

SOLAR POWER

BATTERIES

CHARGING TECH

INVERTERS

ALL-IN-ONE

INSTALLATION



# THE RIGHT INVERTER

Find out which inverter suits your needs.

## The right series

When choosing the right device, you should first ask yourself how you want to use your future inverter. This will determine which inverter series is right for you. Are you looking for an inexpensive basic model? Then the **SI series** is made for you. Would you like to connect a generator or the power grid in addition to your supply battery? The **TSI series** offers the corresponding functions. The **CSI series** also allows you to charge your battery directly from these sources. Or would you like to use your inverter in a solar system and not buy a separate solar charge controller? Then the **SSI series** models are the perfect choice. Find out more on the following pages.

## The right performance

Once you have decided on a series based on the desired functions, the question arises as to **what power** your future inverter should have in order to select a specific model. How much power your inverter should have depends primarily on the total power of the devices you want to operate with the help of the inverter. To get a realistic power rating, you should take a look at the rating plates and identification labels of your electrical appliances. First add up the power values stated there. Unfortunately,

the value determined in this way does not yet provide a conclusive answer. Because now you should pay attention to two other factors, the inrush currents and starting currents.

## Inrush and starting currents

Almost all electrical loads require so-called inrush currents during or after being switched on immediately. These can be a multiple of the rated current that your appliance requires during regular operation. A factor of 5 or 10 is not uncommon. Transformers, switching power supplies, electric motors and even modern LED lamps usually have very high inrush currents. Although the duration of the increased current is usually only a few milliseconds, the inverter must have correspondingly higher power reserves for this period. Starting currents, on the other hand, play a role with loads that only achieve their full functionality when they start up properly. Typical examples of this are drills, angle grinders and refrigerators, whose compressors switch on again and again at certain intervals.

You should therefore definitely consider the inrush and starting currents when choosing your inverter.

## Compatible Battery Technologies:

Wet

Gel

AGM

LFP

# THE SERIES AT A GLANCE

Our inverters offer many practical functions.

Function	SI	TSI	TSI Pro	CSI	CSI Pro	SSI	SSI Pro
Continuous power	300 to 3000 W	500 to 3000 W	1000 to 3000 W	300 to 3000 W	1000 to 3000 W	1000 to 3000 W	1000 to 3000 W
Input voltage	12 / 24 V	12 / 24 V	12 V	12 / 24 V	12 V	12 / 24 V	12 V
Overvoltage protection	✓	✓	✓	✓	✓	✓	✓
Softstart	✓	✓	✓	✓	✓	✓	✓
Reverse polarity protection	✓	✓	✓	✓	✓	✓	✓
Mains priority circuit	✗	✓	✓	✓	✓	✓	✓
Bypass function	✗	✓	✓	✓	✓	✓	✓
Battery charger	✗	✗	✗	✓	✓	✓	✓
MPPT solar charge controller	✗	✗	✗	✗	✗	✓	✓
Network type	IT	IT	TN	IT	TN	IT	TN
Quiet fan	✗	✗	✓	✗	✓	✗	✓

## 12 V or 24 V?

An inverter must be matched to the voltage value of the energy source, otherwise there is a risk of damage to the device. Accordingly, you will find the models of the regular SI, TSI, CSI and SSI series in two versions: for connection to 12 V or 24 V.

Supply batteries for motor vehicles usually have an output voltage of 12 V: a 12 V inverter is sufficient for these. There are also 24 V batteries or supply systems in which two 12 V batteries are connected together to form a total voltage of 24 V. In these cases, you should use an inverter that is approved for an input voltage of 24 V.



# ECTIVE SI INVERTERS

The dependable basic model.

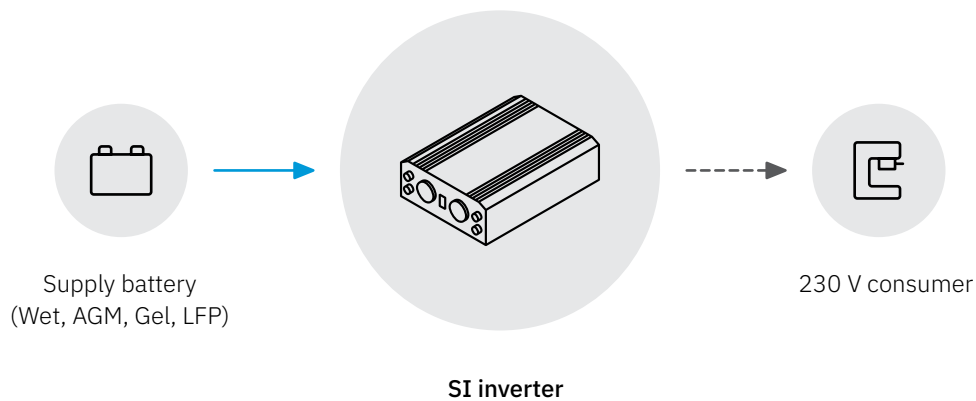
More and more electronic loads are becoming more complex in their design and can no longer be operated with „modified sine wave current“ from inferior inverters. To ensure trouble-free operation, **ECTIVE SI series** inverters supply electricity with an absolutely **pure sine wave** – just like from the socket at home!

Although the SI series is technically the simplest series of ECTIVE inverters, it still offers numerous additional and protective functions, such as a overload protection,

short-circuit protection, overvoltage protection and a soft start function.

The individual models in the series differ primarily in their continuous output: from 300 W to 3000 W, there is a suitable device for every requirement. In addition to the 12-volt version, a 24-volt version is also available for most models. This converts either 12 or 24 V direct current input voltage from the supply battery into 230 V alternating current to operate the loads.

## How to use your ECTIVE SI inverter:



## Functions and properties

- Pure sine wave
- State-of-the-art protection mechanisms
- Available with 12 or 24 V input voltage (except SI 3 and SI 5)
- USB socket for small devices
- Power boost for high starting currents: 2 seconds by 200%, 10 seconds by 150%
- 3-year manufacturer's warranty

## SI 3



**Continuous power:** 300 W  
**Voltage:** 12 V to 230 V  
**Size:** 175 × 150 × 55 mm  
**Weight:** 1,3 kg

## SI 5



**Continuous power:** 500 W  
**Voltage:** 12 V to 230 V  
**Size:** 255 × 150 × 75 mm  
**Weight:** 2,5 kg

## SI 10



**Continuous power:** 1000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 370 × 150 × 75 mm  
**Weight:** 3,4 kg

## SI 15



**Continuous power:** 1500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 360 × 220 × 90 mm  
**Weight:** 5,1 kg

## SI 20



**Continuous power:** 2000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 385 × 220 × 90 mm  
**Weight:** 6,2 kg

## SI 25



**Continuous power:** 2500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 445 × 220 × 90 mm  
**Weight:** 6,9 kg

## SI 30



**Continuous power:** 3000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 425 × 220 × 90 mm  
**Weight:** 10,5 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.

## Technical Specifications

**Max. power up to 2 s:** 2 × Dauerleistung  
**Max. power up to 10 s:** 1,5 × Dauerleistung  
**Mains frequency:** 50 Hz

**Efficiency (12 V):** up to 90 %  
**Efficiency (24 V):** up to 91 %



# ACTIVE TSI INVERTERS

With intelligent mains priority switching and bypass function.

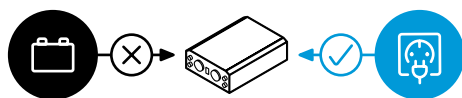
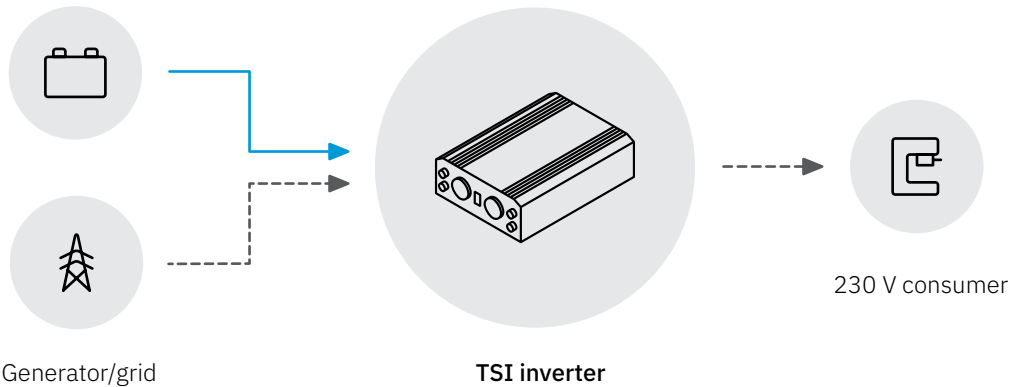
The **ACTIVE TSI series** inverters are specially optimized for connection to a generator or the power grid. With two extremely useful functions, they extend the corresponding basic models of the SI series: Firstly, the intelligent **grid priority circuit** allows smooth switching between power from the battery and power from the grid. So if the battery runs out of juice, you can simply switch on an external power source and continue to use the running devices in mains operation. On the other hand, the TSI inverters have a **bypass function** that allows you to use them as an uninterruptible power supply (UPS): As long as mains power is available, this is used.

However, if it fails, the inverter automatically switches to battery operation within 16 ms. This ensures that all connected loads continue to be supplied with power without interruption.

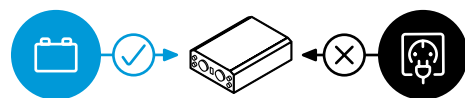
With ECO mode, you operate the inverter in battery priority. This means that the battery supplies all devices with power even though mains or generator power is connected. If the voltage drops to the minimum of 11 V, the inverter automatically switches to mains operation. This mode is perfect for stand-alone operation.

## How to use your ACTIVE TSI inverter:

Supply battery



Mains priority circuit (UPS mode)



Battery priority circuit (ECO mode)

## TSI 5



**Continuous power:** 500 W  
**Voltage:** 12 V to 230 V  
**Size:** 300 × 150 × 75 mm  
**Weight:** 2,6 kg

## TSI 10



**Continuous power:** 1000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 410 × 150 × 75 mm  
**Weight:** 3,5 kg

## TSI 15



**Continuous power:** 1500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 390 × 220 × 90 mm  
**Weight:** 5,3 kg

## TSI 20



**Continuous power:** 2000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 450 × 220 × 90 mm  
**Weight:** 6,4 kg

## TSI 25



**Continuous power:** 2500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 500 × 220 × 95 mm  
**Weight:** 7,2 kg

## TSI 30



**Continuous power:** 3000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 500 × 220 × 150 mm  
**Weight:** 10,8 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.

## Technical Specifications

**Max. power up to 2 s:** 2 × Dauerleistung  
**Max. power up to 10 s:** 1,5 × Dauerleistung  
**Mains frequency:** 50 Hz

**Efficiency (12 V):** up to 90 %  
**Efficiency (24 V):** up to 91 %  
**Switch time (UPS):** < 16 ms



# ACTIVE TSI PRO

With quiet fan and TN network.

Our **TSI-PRO** inverters offer all the functions and features of the regular TSI models, as well as some advanced enhancements: a quieter fan makes operation more pleasant, especially when the inverter is installed indoors. In addition, all **PRO** inverters have an integrated **RCD with over-current protection**, which automatically shuts down the system in the event of fault currents, thus protecting against potentially fatal electric shocks. Unlike conventional inverters, which usually output an **IT network**, our PRO inverters provide a **TN network**. In such a network, personal protection can be achieved by earthing, just as in a normal domestic network.

## TSI 10 PRO



**Continuous power:** 1000 W  
**Voltage:** 12 V to 230 V  
**Size:** 335 × 220 × 120 mm  
**Weight:** 4,1 kg

## TSI 15 PRO



**Continuous power:** 1500 W  
**Voltage:** 12 V to 230 V  
**Size:** 370 × 220 × 120 mm  
**Weight:** 4,7 kg

## TSI 20 PRO



**Continuous power:** 2000 W  
**Voltage:** 12 V to 230 V  
**Size:** 455 × 220 × 120 mm  
**Weight:** 5,8 kg

## TSI 25 PRO



**Continuous power:** 2500 W  
**Voltage:** 12 V to 230 V  
**Size:** 485 × 220 × 120 mm  
**Weight:** 6,3 kg

## TSI 30 PRO



**Continuous power:** 3000 W  
**Voltage:** 12 V to 230 V  
**Size:** 500 × 220 × 150 mm  
**Weight:** 7,8 kg

## Technical Specifications



RCD with over-current protection



Quiet ventilation



TN network

Max. power up to 2 s: 2 × Continuous power

Max. power up to 10 s: 1,5 × Continuous power

Mains frequency: 50 Hz

Efficiency (12 V): up to 90 %

Switch time (UPS): < 16 ms

**3** YEARS  
WARRANTY

Our **ECTIVE** Warranty – Because we are convinced of our products' quality.





# ACTIVE CSI INVERTERS

Advanced inverters with integrated charger.

The **ACTIVE CSI inverters** supplement the functions of the SI and TSI series with a powerful, **integrated charger** with IUoU charging characteristic. This allows you to charge your supply battery using the inverter without having to resort to a separate charging station.

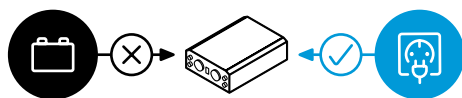
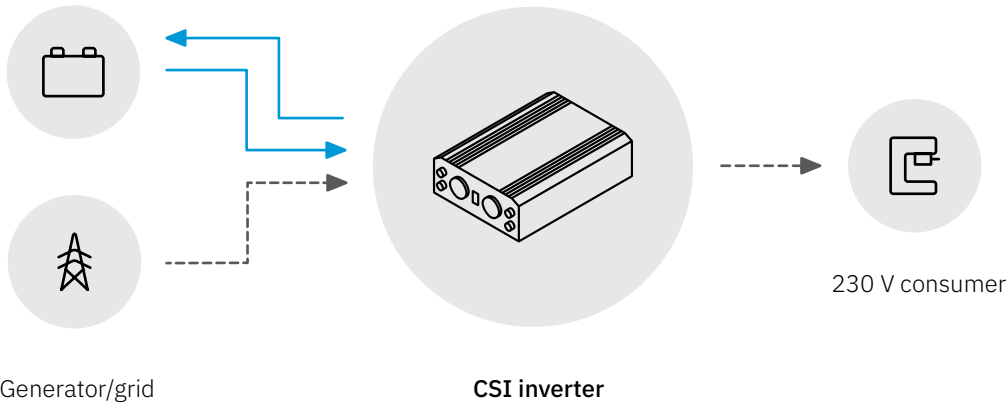
This allows you to simply connect your consumers and your battery to your CSI inverter. If you then add mains power or a generator, you can use these power sources to recharge the

supply battery. The charger's intelligent IUoU charging technology automatically keeps the voltage and charge level at a constant level. This not only provides you with an uninterrupted power supply, but also a longer battery life.

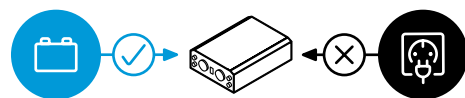
The proven, comprehensive functions of the SI and TSI inverters are also used in the CSI series, so that you can supply your demanding electrical consumers with high-quality alternating current everywhere.

## How to use your ACTIVE CSI inverter:

Supply battery



Mains priority circuit (UPS mode)



Battery priority circuit (ECO mode)

## CSI 3



**Continuous power:** 300 W  
**Voltage:** 12 V to 230 V  
**Size:** 270 × 150 × 55 mm  
**Weight:** 1,7 kg

## CSI 5



**Continuous power:** 500 W  
**Voltage:** 12 V to 230 V  
**Size:** 355 × 150 × 75 mm  
**Weight:** 2,5 kg

## CSI 10



**Continuous power:** 1000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 430 × 150 × 75 mm  
**Weight:** 3,4 kg

## CSI 15



**Continuous power:** 1500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 450 × 220 × 90 mm  
**Weight:** 5,6 kg

## CSI 20



**Continuous power:** 2000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 480 × 220 × 90 mm  
**Weight:** 6,5 kg

## CSI 25



**Continuous power:** 2500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 530 × 220 × 90 mm  
**Weight:** 7,3 kg

## CSI 30



**Continuous power:** 3000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 480 × 220 × 150 mm  
**Weight:** 9,1 kg

### Technical Specifications

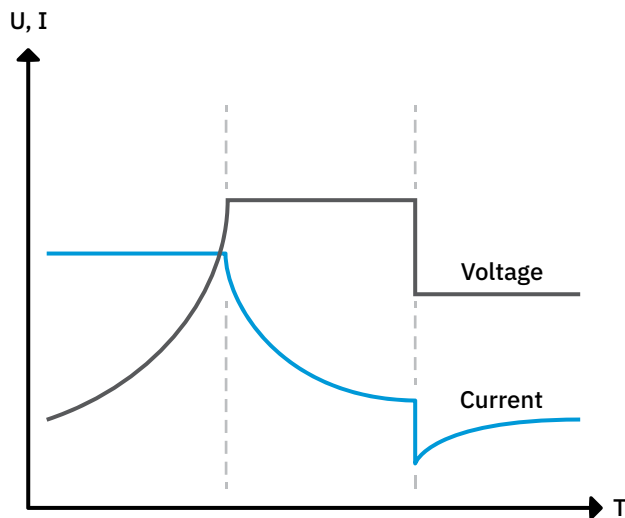
**Max. power up to 2 s:** 2 × Continuous power  
**Max. power up to 10 s:** 1,5 × Continuous power  
**Max. charge current (12 / 24 V):** 10 / 20 A  
**Mains frequency:** 50 Hz  
**Efficiency (12 V):** up to 90 %  
**Efficiency (24 V):** up to 91 %  
**Switch time (UPS):** < 16 ms

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** – Because we are convinced of our products' quality.

# CSI – THE INTEGRATED CHARGER

Efficient and gentle battery charging with IUoU characteristic curve.



## The right charging process for all battery technologies

With its maximum charging voltage of 14.4 V, the integrated and intelligent charger of the ECTIVE CSI inverters is suitable for AGM, gel and LiFePo4 batteries (with BMS) as well as standard wet batteries.

Of course, the CSI models also have the functions of the SI and TSI series. These include mains and battery priority switching as well as numerous safety and comfort features.

## Compatible Battery Technologies:

Wet

Gel

AGM

LFP



## ALEXEJ'S ADVICE

**What you should look out for during installation:** When wiring your inverter, make sure that the cable cross-section is sufficient. The corresponding table in the operating instructions for our devices tells you which cables you should use.



CSI

3

ON

OFF

Inverter

Fault

AC-Charge

50V  
21A



# ACTIVE CSI PRO

With even more power and optimised for all battery types.

Just like the TSI-PRO inverters, the **CSI-PRO** models are quieter to operate thanks to their quieter fan and offer even greater personal protection with their integrated **RCD circuit breaker with overcurrent protection** and the **TN system** output. In addition, the CSI-PRO devices have a more **powerful charger** that can be set to the type of battery used via a DIP switch. This means that the charger operates with a charging characteristic optimised for each battery technology, ensuring that your battery is charged as efficiently and gently as possible.

## CSI 10 PRO



**Continuous power:** 1000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 20 A  
**Size:** 380 × 220 × 150 mm  
**Weight:** 5,0 kg

## CSI 15 PRO



**Continuous power:** 1500 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 30 A  
**Size:** 395 × 220 × 150 mm  
**Weight:** 6,1 kg

## CSI 20 PRO



**Continuous power:** 2000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 30 A  
**Size:** 445 × 220 × 150 mm  
**Weight:** 7,4 kg

## CSI 25 PRO



**Continuous power:** 2500 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 40 A  
**Size:** 515 × 220 × 150 mm  
**Weight:** 8,0 kg

## CSI 30 PRO



**Continuous power:** 3000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 40 A  
**Size:** 515 × 220 × 150 mm  
**Weight:** 8,6 kg

## Technical Specifications



RCD with over-current protection



Quiet ventilation



TN network



More powerful charger



Selectable charging characteristic curve for all battery types

Max. power up to 2 s: 2 × Continuous power

Efficiency (12 V): up to 90 %

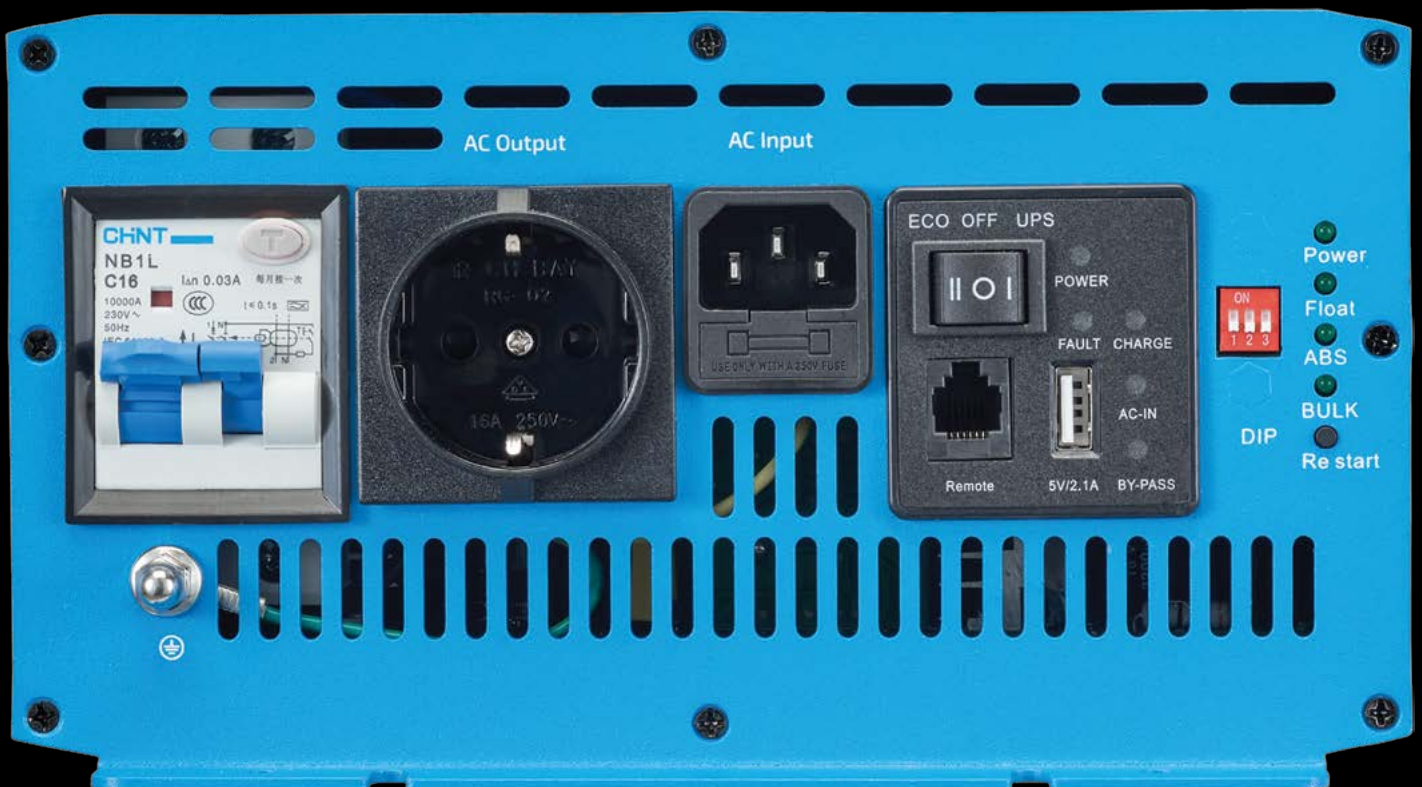
Max. power up to 10 s: 1,5 × Continuous power

Switch time (UPS): < 16 ms

Mains frequency: 50 Hz

**3** YEARS WARRANTY

Our **ECTIVE** Warranty – Because we are convinced of our products' quality.





# ECTIVE SSI INVERTERS

Premium inverter with integrated MPPT solar charge controller.

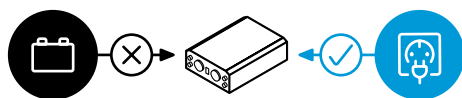
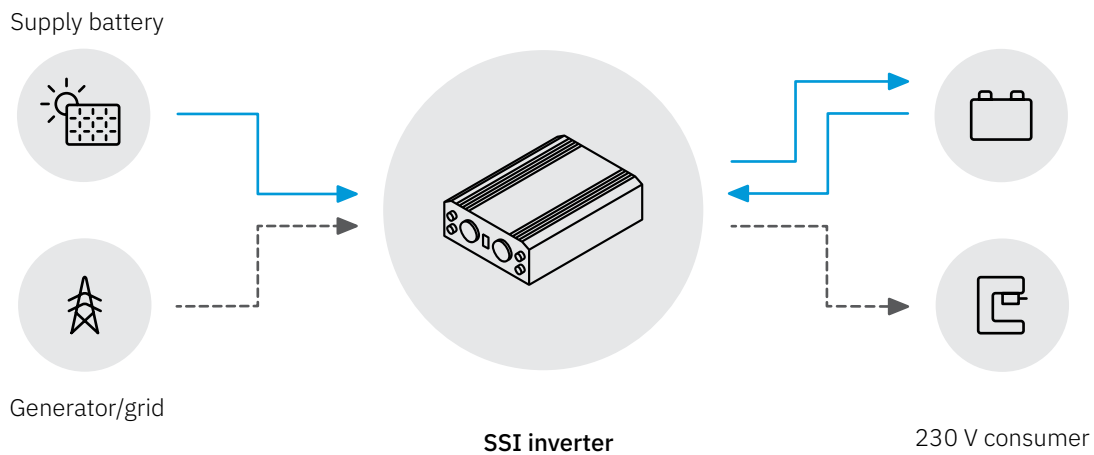
The **SSI series** undoubtedly offers the flagship models of the ECTIVE inverters. In addition to the functions of the other series, i.e. **mains priority circuit, bypass function** and **integrated charger**, these all-rounders also have an **integrated MPPT solar charge controller**.

This makes them the ultimate solution if you are looking for a truly self-sufficient power supply for your electrical appliances. Simply connect your solar system directly to your SSI inverter, which passes on the energy generated to the consumers and automatically charges the connected supply battery. The Max Power Point Tracker (MPPT) ensures that the full power potential of the solar modules is

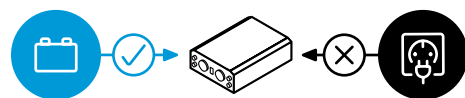
utilised and the battery is always recharged as quickly as possible, while the environmentally friendly **ECO mode** allows you to set devices to rely exclusively on solar energy even when utility or generator power is available. If solar power is no longer available, the SSI inverter automatically switches to grid priority.

You are also ideally equipped for emergencies with SSI inverters. If the supply battery has discharged too deeply during a prolonged power outage and utility power are then available again, both energy sources simultaneously take care of the rapid recharging to the target voltage value.

## How to use your ECTIVE SSI inverter:



Mains priority circuit (UPS mode)



Battery priority circuit (ECO mode)

## SSI 10



**Continuous power:** 1000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 380 × 220 × 150 mm  
**Weight:** 5,8 kg

## SSI 15



**Continuous power:** 1500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 450 × 220 × 150 mm  
**Weight:** 6,8 kg

## SSI 20



**Continuous power:** 2000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 500 × 220 × 150 mm  
**Weight:** 7,9 kg

## SSI 25



**Continuous power:** 2500 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 520 × 220 × 150 mm  
**Weight:** 8,5 kg

## SSI 30



**Continuous power:** 3000 W  
**Voltage:** 12 / 24 V to 230 V  
**Size:** 500 × 220 × 150 mm  
**Weight:** 9,7 kg

**3 YEARS WARRANTY**

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.

## Technical Specifications

**Max. power up to 2 s:** 2 × continuous power  
**Max. power up to 10 s:** 1,5 × continuous power  
**Max. charging current (12 / 24 V):** 10 / 20 A  
**Mains frequency:** 50 Hz  
**Efficiency (12 V):** up to 92%  
**Efficiency (24 V):** up to 93%  
**Switching time (UPS):** < 16 ms

**Efficiency solar charge controller:** 97%  
**Solar input voltage:** 15 to 70 V  
**Max. solar input power:** 550 W  
**MPPT-Charging current (max.):** 20 A  
**Charging voltage:** 10,5 to 14,4 V  
**USB output:** 5 V / 1 A

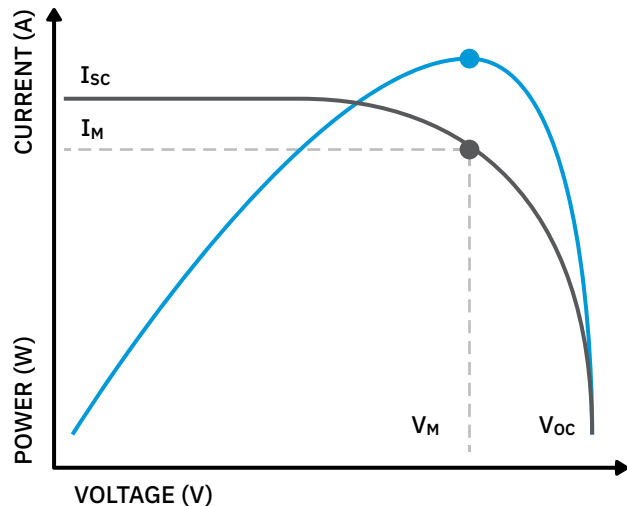
# SSI – THE MPPT SOLAR CHARGE CONTROLLER

Power your devices and charge your batteries with solar power.

## Maximum efficiency in all situations

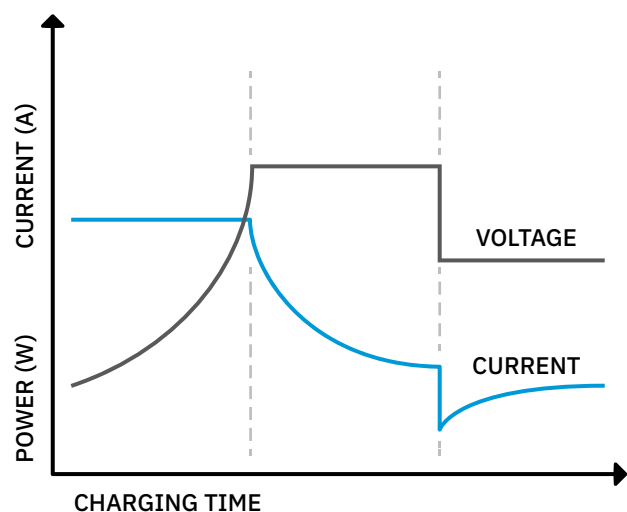
All ECTIVE SSI inverters have an integrated MPPT solar charge controller that allows you to utilize the maximum possible output of your solar modules. In contrast to conventional PWM charge controllers, the full potential of your solar modules is utilized, completely independent of the difference between battery and module voltage. The internal microprocessor constantly determines the most efficient operating point so that your batteries are charged at the highest efficiency.

**This is how it works:** Simply connect modules with an input voltage of up to 70 V and the MPPT charge controller of your ECTIVE SSI inverter will charge the connected batteries. The MPPT charging current depends on your SSI model – the SSI 25 Pro and SSI 30 Pro models charge with up to 40 A! With sufficient sunlight, this ensures that the batteries are always fully charged.



## Functions and properties

- Charger with IUoU characteristic
- Pure sine wave
- State-of-the-art protection mechanisms
- Available with 12 or 24 V input voltage
- USB socket for small devices
- Power boost for high starting currents: 2 seconds by 200%, 10 seconds by 150%
- 3-year manufacturer's warranty







# ACTIVE SSI PRO

With powerful charger and charge controller for all battery types.

The devices in the **ACTIVE SSI-PRO** series are top-of-the-range inverters. They combine the numerous functions and features of the SSI series with all the additional advantages of the PRO series:

The **quiet fan** for noise-free operation and maximum protection thanks to **RCD** circuit breakers with **overcurrent protection** and **TN mains** make them comfortable and extremely safe to use. In addition, the charger and integrated charge controller built into the SSI PRO are even more powerful than in the regular version. You can select the battery technology used via a DIP switch, and both the charger and charge controller will then charge with a correspondingly optimised charging characteristic curve.

## SSI 10 PRO



**Continuous power:** 1000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 20 A  
**Charge current (MPPT):** 40 A  
**Size:** 405 × 220 × 150 mm  
**Weight:** 6,0 kg

## SSI 15 PRO



**Continuous power:** 1500 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 30 A  
**Charge current (MPPT):** 40 A  
**Size:** 430 × 220 × 150 mm  
**Weight:** 7,0 kg

## SSI 20 PRO



**Continuous power:** 2000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 30 A  
**Charge current (MPPT):** 40 A  
**Size:** 475 × 220 × 150 mm  
**Weight:** 8,3 kg

## SSI 25 PRO



**Continuous power:** 2500 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 40 A  
**Charge current (MPPT):** 40 A  
**Size:** 515 × 220 × 150 mm  
**Weight:** 8,9 kg

## SSI 30 PRO



**Continuous power:** 3000 W  
**Voltage:** 12 V to 230 V  
**Charge current:** 40 A  
**Charge current (MPPT):** 40 A  
**Size:** 515 × 220 × 150 mm  
**Weight:** 9,3 kg

## Technical Specifications



FI circuit breaker with overcurrent protection



Quiet ventilation



TN Mains



More powerful charger



Selectable charging characteristic curve for all battery types

Max. power up to 2 s: 2 × Continuous power

Max. power up to 10 s: 1,5 × Continuous power

Mains frequency: 50 Hz

Efficiency (12 V): up to 92 %

Switch time (UPS): < 16 ms

MPPT efficiency: 97 %

Solar input voltage: 25 to 70 V

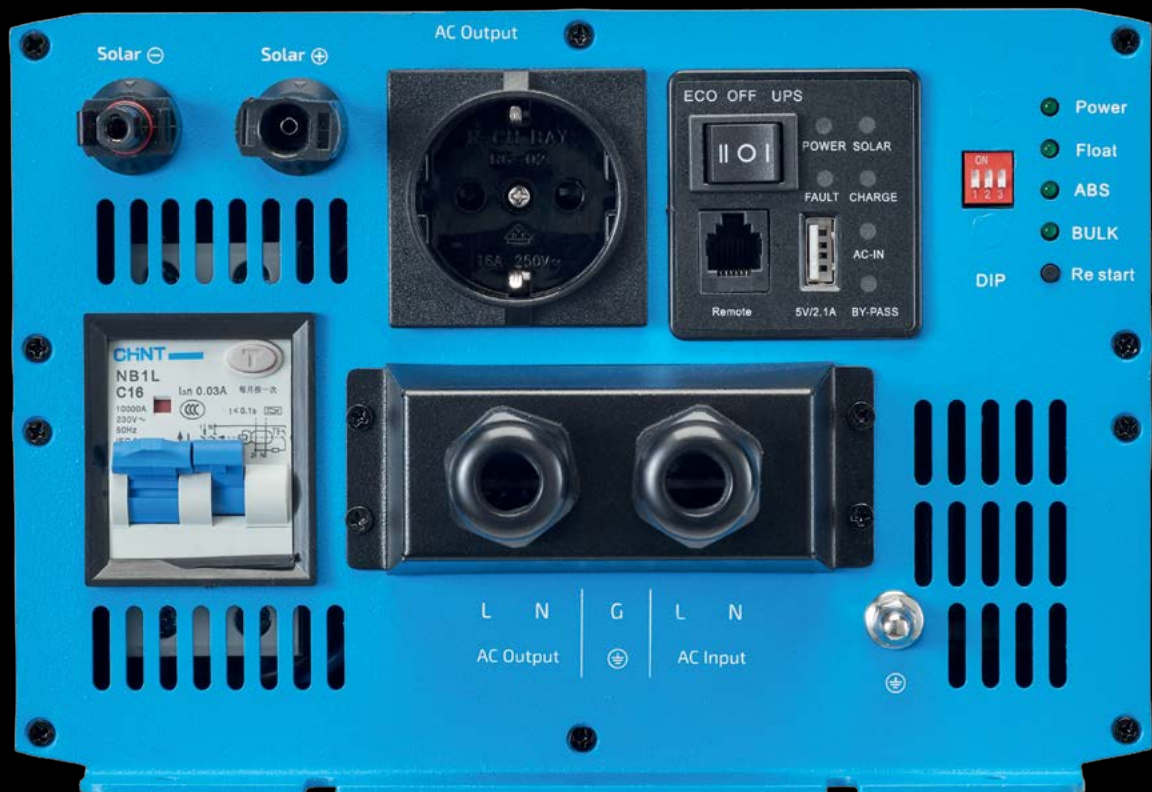
Max. solar input power: 550 W

Charging voltage: 10,5 to 14,4 V

USB port: 5 V / 1 A

**3** YEARS WARRANTY

Our **ECTIVE** Warranty — Because we are convinced of our products' quality.



# PROTECTION AND COMFORT

Simple operation and safe functioning.

---

ECTIVE products are designed to make your everyday life easier. That's why we make sure that our inverters are easy to operate and provide optimum protection for you and your connected devices.

The **ECTIVE RC remote control** is ideal for convenient operation, allowing you to switch your inverter on and off and monitor important values. Another particularly practical feature is the USB port, which allows you to charge smaller devices such as smartphones or tablets directly from the inverter.

To prevent the connected consumer battery from being deeply discharged and to protect consumers from voltage fluctuations, our inverters also feature state-of-the-art safety functions. This means you can rely on your devices to operate comfortably and with complete peace of mind.

The **PRO models** also have an integrated RCD switch that disconnects the circuit in the event of fault currents, thus protecting against life-threatening electric shocks. In the TN network supplied by these inverters, personal protection can also be implemented by earthing the system, as in a familiar domestic network.



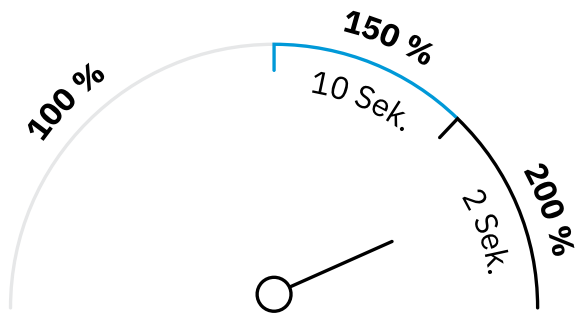
## Safety Features

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The following features of ECTIVE inverters protect users, devices and batteries during operation:

- **Overvoltage & undervoltage protection**  
Automatically switches off the inverter if the set values are exceeded or not reached, preventing damage to the inverter and deep discharge of the supply batteries.
- **Reverse polarity protection**  
If the battery cables are swapped, the inverter fuse will immediately blow.
- **Soft start**  
Limits the power required when switching on the inverter, thereby reducing the load on the batteries and preventing fuse failures.
- **Overload protection**  
Ensures automatic shutdown of the inverter in the event of excessive power demand by consumers
- **Overheating protection**  
Immediately switches off the inverter when indoor temperatures exceed 75 °C.
- **Short-circuit protection**  
Immediately deactivates the inverter in the event of short circuits at a consumer.
- **Warning signals**  
In the event of a fault, the inverter alerts you to the underlying problem by means of acoustic signals and LED warning lights. This enables you to troubleshoot quickly and safely.
- **FI switch (PRO models)**  
Automatically switches off the circuit in the event of fault currents.

## Performance when it matters



Integrated protection circuits, durable power electronics and intelligent microprocessor control guarantee high overload capacity. This means you can use your ECTIVE inverter safely and without restrictions, even with consumers that have high starting currents or short-term peak consumption.

**150%** Power for 10 seconds

**200%** Power for 2 seconds





# ECTIVE RC REMOTE CONTROLS

The right remote control for every inverter.

The practical wired **ECTIVE RC Remote Controls** allow you to conveniently monitor and switch your inverter on and off. Please note that the **RC 1** to **RC 4** remote controls are only compatible with conventional SI, TSI, CSI or SSI devices (without the „PRO“ suffix). If you want to install an ECTIVE PRO inverter, use the **RC PRO remote control**.

## RC 1



for ECTIVE  
SI Inverters

## RC 2



for ECTIVE  
TSI Inverters

## RC 3



for ECTIVE  
CSI Inverters

## RC 4



for ECTIVE  
SSI Inverters

## RC PRO



for all ECTIVE  
„PRO“ Inverters

Feature	RC 1	RC 2	RC 3	RC 4	RC PRO
Charge level indicator	✓	✓	✓	✓	✓
On/off switch	✓	✓	✓	✓	✓
Power/standby display	✓	✓	✓	✓	✓
Instantaneous consumption display	✓	✓	✓	✓	✓
Battery operation display	✓	✓	✓	✓	✓
Eco mode	✓	✓	✓	✓	✓
Error display	✓	✓	✓	✓	✓
Mains priority circuit display	✗	✓	✓	✓	✓
Shore power display	✗	✓	✓	✓	✓
Charge-over-charger indicator	✗	✗	✓	✓	✓
MPPT solar charge controller display	✗	✗	✗	✓	✓

## Technical Specifications

Size: 100 × 70 × 31 mm

Connection: RJ12 (inkl. Kabel)

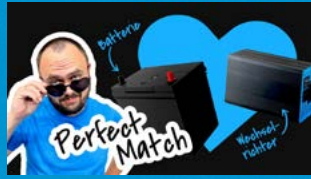
Weight: 0,2 kg





ECTIVE on YouTube

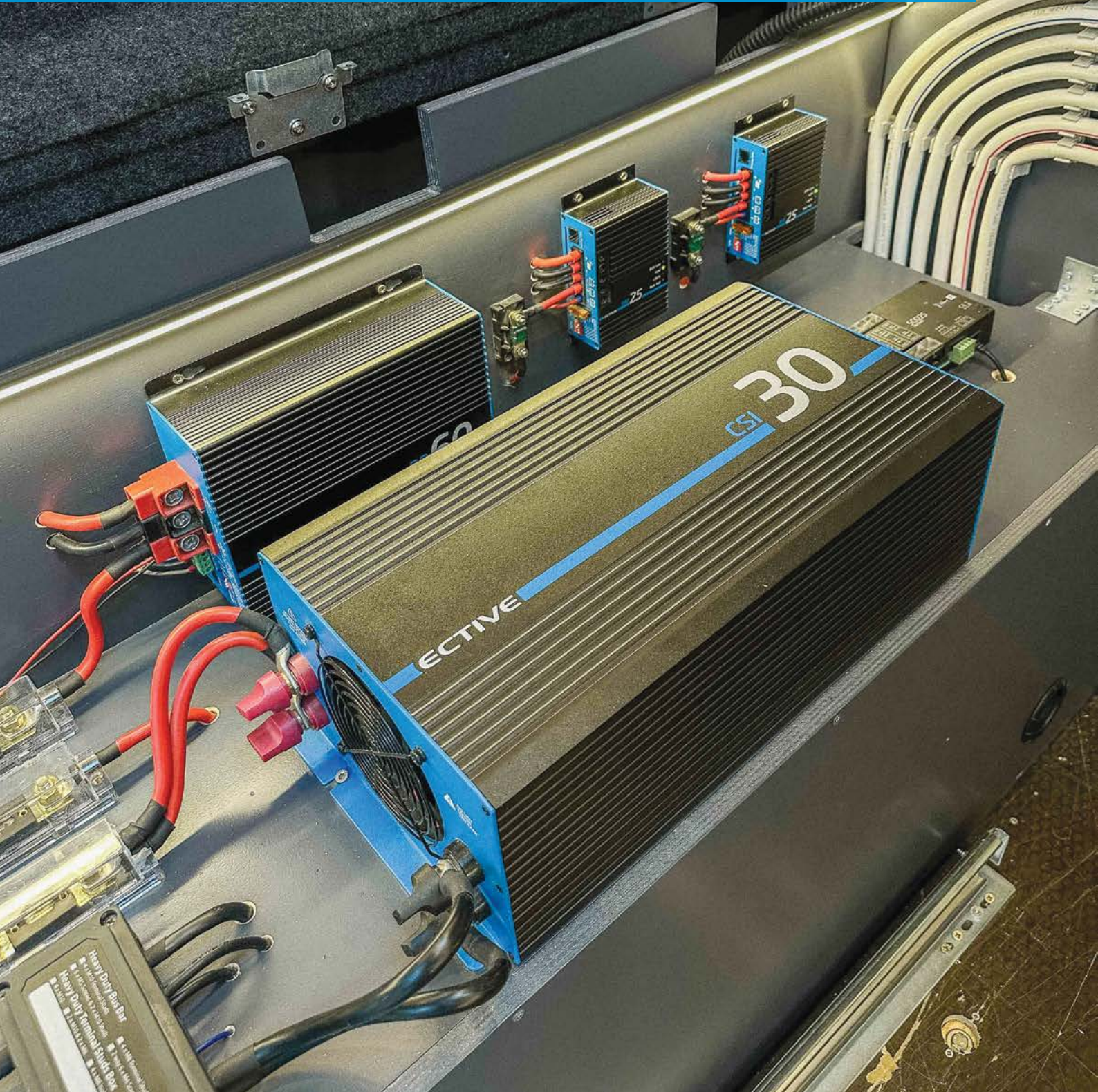
youtube.com/@ective\_strom



### HELP WITH CHOOSING A BATTERY

How inverters and batteries work together!

Whether it's a van, boat or allotment, make sure your battery and inverter are compatible with each other!



# INVERTERS IN THE ECTIVE ECOSYSTEM

Expand your setup with useful components provided by ECTIVE.

As you can see, the various inverters from ECTIVE offer a wide range of functions. In particular, the versatile models of the TSI, CSI and SSI series can take over the tasks of other devices. So it's entirely up to you to decide whether you want a convenient combination product such as an SSI inverter

for your power supply, or whether you want to put together your own set-up from separate components, such as our chargers or MPPT charge controllers. In any case, all ECTIVE products are perfectly coordinated so you can implement your desired power supply easily, efficiently and safely.





**ACTIVE** Power supply for on the go.

# ALL-IN-ONE

**Complete self-sufficiency — anytime, anywhere**

P. 192 Find the right all-in-one device for you.



ECTIVE



ECTIVE on YouTube

youtube.com/@ective\_strom



### ECTIVE BLACKBOX

The ultra-mobile power bank.

Our mobile lithium powerhouse for your self-sufficient adventures.

### ECTIVE ACCUBOX

The mobile power station for complete self-sufficiency.

The portable all-in-one power station for anyone who wants to be self-sufficient with electricity on the go.



# ALL-IN-ONE SOLUTIONS

Self-sufficient power supply: anywhere and at any time.

Where there's a will, there's a way – true to this motto, our two series of mobile all-in-one solutions provide your electrical devices with self-sufficient power.

## Two products for mobile, independent power supply

Think of the ECTIVE BlackBox and AccuBox as a giant power bank with many more connections and uses. While you can carry your BlackBox anywhere, the AccuBoxes offer more power and are ideal for outdoor power supply. In general, the larger the battery capacity, the longer the self-sufficient power supply will work and the heavier the all-in-one device will be.

## Numerous connection options

With your BlackBox or AccuBox, you can supply a wide variety of devices with power. The 230 V sockets supply power to demanding appliances such as televisions or fridges. USB ports and 12 V connections are available for smaller devices. In emergencies, your all-in-one device can even be used as a jump-start for your vehicle.

Various charging options are available to ensure that your BlackBox or AccuBox supplies reliable power: You can charge your all-in-one device conveniently via a mains socket, an on-board power socket or with your solar system.



### ECTIVE BlackBox

**P. 194** | Lightweight and portable: Optimal power supply for camping, traveling by bike or backpack and outdoor photo shoots.



### ECTIVE AccuBox

**P. 198** | Robust and powerful: Perfect for outdoor activities, long-term power supply for many devices or as a replacement for your supply battery.



# THE RIGHT ALL-IN-ONE DEVICE

Find out whether you should go for the BlackBox or AccuBox.

## Which all-in-one device is right for me?

The decision between **AccuBox** and **BlackBox** depends on whether you have to carry your All-in-One device yourself or can transport it, as well as on the battery capacity required.



The **BlackBox 5** is the right choice when **camping with a rucksack**. It weighs only 8.5 kg and is easy to carry. This model is also suitable for festivals and vacations. If you are traveling by bike or car, the larger BlackBoxes are also an option.



On **vacation with a motorhome or caravan**, one of the larger **AccuBoxes** is the convincing choice: they can be charged via the land socket or via the solar module on the roof and supplement the built-in supply battery or replace it completely.



A large **AccuBox** is particularly useful in places like **allotment gardens**. There it supplies several small consumers with electricity for many days and weeks.



Professionals such as photographers who need a particularly mobile power supply for **outdoor photo shoots or video shoots** in remote locations, for example, will find the portable **BlackBox** the solution to their needs. However, if many devices need to be supplied with power over a long period of time, the powerful **AccuBox** is the better alternative.

## USE SOLAR ENERGY FOR MAXIMUM SELF-SUFFICIENCY

Charge your all-in-one device cheaply and environmentally friendly with solar power! If you want to be particularly mobile, our portable solar modules are just the thing for you.

For the ECTIVE BlackBox, you can use solar modules with an output of up to 200 Wp and an input voltage of 12 to 30 V to charge the box with solar energy.

Our AccuBox models even allow charging with up to 700 Wp and support an input voltage of up to 90 V.





# ECTIVE BLACKBOX

The portable power supply for travelling.

Whether it's a camping trip, excursion or outdoor photo shoot, you can easily power all your electrical appliances with your **ECTIVE BlackBox**. With its versatile connections, the BlackBox reliably powers end devices such as laptops, televisions and kitchen appliances. Thanks to the USB ports, charging smartphones, digital cameras and other small consumers is no problem either. You can even start your car with the BlackBox. The integrated battery management system also protects

the built-in battery so that your BlackBox has a long service life and performs reliably. The ECTIVE BlackBox is available in three sizes. The individual models differ technically in terms of their capacity, continuous output and peak output. The devices become larger and heavier with increasing capacity. Fortunately, the compact design and lightweight integrated **LiFePO<sub>4</sub> batteries** mean that even the larger models are perfect companions for travelling.



## BlackBox 5



**Capacity:**

20 Ah (25,6 V) | 512 Wh

**Continuous power:** 500 W

**Charging time:** 3,5 h

**Size:** 250 × 190 × 240 mm

**Weight:** 8,5 kg

## BlackBox 10



**Capacity:**

40,5 Ah (25,6 V) | 1036,8 Wh

**Continuous power:** 1000 W

**Charging time:** 6,2 h

**Size:** 385 × 190 × 240 mm

**Weight:** 15,0 kg

## BlackBox 15



**Capacity:**

58,5 Ah (25,6 V) | 1497,6 Wh

**Continuous power:** 1500 W

**Charging time:** 8,5 h

**Size:** 480 × 190 × 240 mm

**Weight:** 20,0 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.

## Technical properties

**Direct current outputs:**

4 × USB ports

1 × USB-C port

2 × DC output (DC5521, 12 V / 5 A)

1 × Onboard power socket (12 V / 10 A)

**Alternating current output:**

2 × 230 V, 50 Hz, pure sine wave

**Voltage:** 230 V

**Max. power up to 2 s:** 2 × continuous power

**Operating temperature:** 0 to 45°C

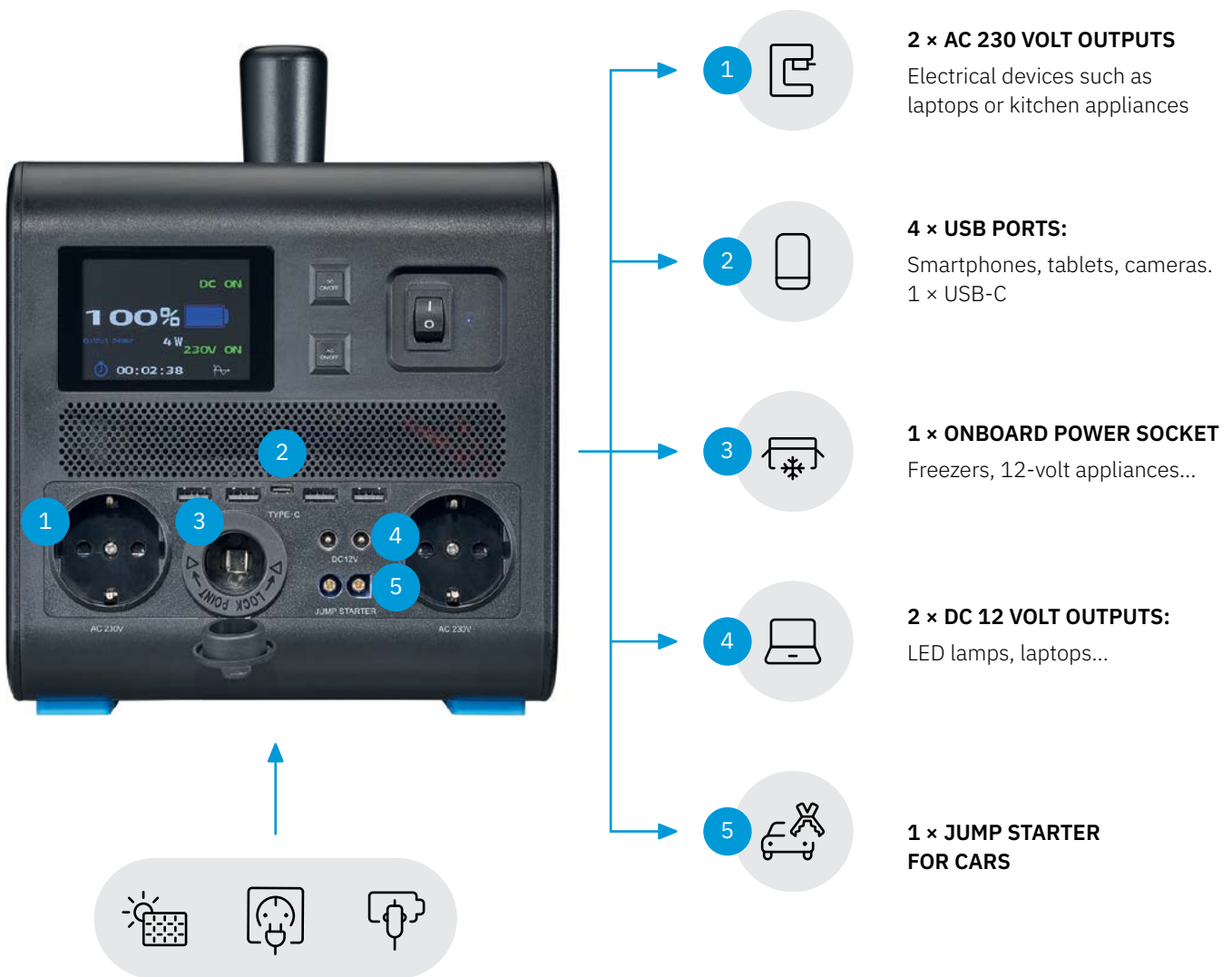
**Cycle life:** > 3000

**Charge (mains):** AC 230 V, 50 Hz, 200 W

**Charge (solar):** DC 12 to 30 V, max. 200 Wp

# BLACKBOX - THE RIGHT CONNECTION

Your BlackBox supplies power to a wide range of devices.



# FLEXIBLE CHARGING

Keep your BlackBox charged at all times with these options.

There are several options for charging your BlackBox:

At home, connect the supplied charger to the **mains socket** and the DC/solar charging connection on the back of the BlackBox.

In the garden shed, motorhome or on a boat with solar power, connect the charging cable to

the **solar module** and connect it to the charging connection on the back of the BlackBox. An output voltage of 5 to 24 volts direct current and a DC-Male connection are required.

Last but not least, you can also easily charge the BlackBox via your **vehicle's 12-volt socket**. The integrated display keeps you informed about the charging status of your BlackBox at all times.

## B.M.S. - Battery Management System

The integrated battery management system effectively protects your BlackBox from various problems and thus enables safe operation. It also helps to protect the installed LiFePO<sub>4</sub> battery and extend its service life.

- Short-circuit protection
- Overheating protection
- Overcurrent protection
- Overvoltage protection
- Undervoltage protection
- Overload protection





# ECTIVE ACCUBOX

Reliable outdoor power supply.

Whether smartphone, cool box or lighting: with the portable **ECTIVE AccuBox**, you can supply various types of devices with the energy they need during your outdoor activities. The numerous connections of this power bank in XXL format allow you to operate and charge small mobile devices as well as larger, stationary consumers.

The latest generation of the ECTIVE AccuBox is available in three different models. Depending on the model, the **robust housing** contains an environmentally friendly and long-lasting LiFePO<sub>4</sub> battery with a capacity of between 1536 and 3840 Wh. All AccuBox models also have an **integrated MPPT charge**

**controller** for charging via solar panel and an **inverter** for converting direct current into alternating current. This allows you to supply even demanding consumers such as electronically controlled kitchen appliances, energy-intensive devices such as a freezer or even sensitive consumer electronics with the necessary, high-quality power.

No matter which AccuBox you choose, and whether you use it as a replacement for the supply battery in your motorhome or leave it in your allotment for a longer period of time: Your ECTIVE AccuBox gives you maximum independence from the fixed power grid.

## AccuBox 120 S



**Nominal capacity:** 120 Ah  
**Battery capacity:** 1536 Wh  
**Rated power WR:** 3000 W  
**MPPT Charging current:** 40 A  
**Dimensions:** 420 × 265 × 390 mm  
**Weight:** 27,1 kg

## AccuBox 200 S



**Nominal capacity:** 200 Ah  
**Battery capacity:** 2560 Wh  
**Rated power WR:** 3000 W  
**MPPT Charging current:** 40 A  
**Dimensions:** 420 × 265 × 410 mm  
**Weight:** 34,4 kg

## AccuBox 300 S



**Nominal capacity:** 300 Ah  
**Battery capacity:** 3840 Wh  
**Rated power WR:** 3000 W  
**MPPT Charging current:** 40 A  
**Dimensions:** 420 × 265 × 430 mm  
**Weight:** 38,6 kg

**3 YEARS**  
WARRANTY

**Our ECTIVE Warranty** — Because we are convinced of our products' quality.



## ECTIVE LIVES SUSTAINABILITY

The production of advanced lithium-ion batteries requires rare earths and other precious resources. That is why we strive to design ECTIVE batteries to be as environmentally friendly and sustainable as possible.

To this end, we have developed our ECTIVE AccuBox so that it is 100% repairable and the cells are completely replaceable. This allows us to extend the service life of our products and conserve our planet's resources.



### Technical Specifications

Nominal voltage (battery): 12,8 V

Output voltage (inverter): 230 V

Rated power (inverter), 2 sec.: 6000 W

Rated power (inverter), 10 sec.: 4500 W

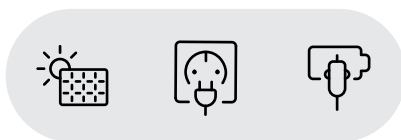
Max. solar voltage: 90 V

Max. solar power: 700 Wp

Charge booster charging current: 30 A

# ACCUBOX—THE RIGHT CONNECTION

The connections of the AccuBox supply power to a wide variety of devices.



## CHARGING OPTIONS

**Solar module** (integrated MPPT charge controller)

**Mains socket** (charger supplied)

**Alternator** (integrated charging booster)



## 3 × AC 230 VOLT OUTPUTS

Electrical devices such as laptops or kitchen appliances



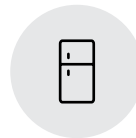
## 3 × USB 3.0 | 3 × USB C

Smartphones, tablets, cameras. 1 × USB-C



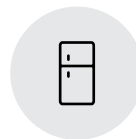
## 3 × ONBOARD POWER SOCKETS

Freezers, 12-volt appliances...



## DC 12 VOLT OUTPUTS:

DC refrigerators, lamps



## DC 12 VOLT OUTPUTS:

DC refrigerators, lamps



## WIRELESS CHARGING FUNCTION:

For smartphones with Qi standard



### Connection options

You can connect small electronic devices such as smartphones, tablets or MP3 players to the AccuBox via the integrated **onboard power sockets and USB ports**.

Several **DC12V Anderson plugs** with 50 A or 175 A make it possible to supply various DC12 V devices such as DC fridges, televisions, lamps and much more with power. The 50 A plugs can be used both as an output for connecting devices and as an input for charging the battery. You can connect large

DC consumers to the 175 A connection or use the connection to jump-start your vehicle.

The AccuBoxes have three **230 V AC sockets**, which you can use to connect most AC-powered devices (e.g. computers, modern televisions, coffee machines and much more).

Particularly practical: the **wireless charging module** on the top of the AccuBox allows you to charge your compatible smartphone via inductive charging!







## POWER IN; POWER OUT!

For extra flexibility, combine your ECTIVE AccuBox with our portable solar modules. Whether large or small consumers, your AccuBox provides reliable power. Hot tip: The AccuBox powers compatible smartphones directly via inductive charging according to the Qi standard.

# ACCUBOX — FLEXIBLE CHARGING

Mains, alternator or solar energy: this is how you can charge your AccuBox.

## Charging options

Every supply battery runs out of juice at some point. Fortunately, ECTIVE AccuBoxes offer three convenient charging options for the battery:

With the AC charger supplied, you can conveniently charge your supply battery from your **home power supply**. If you need even more power, the AccuBox is also compatible with the chargers from the ECTIVE Multiload Pro series.

Thanks to the built-in charging booster, the AccuBox can also be charged via the

vehicle's alternator **while travelling**.

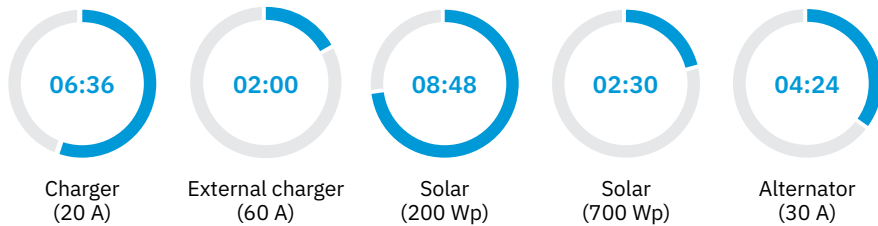
You can also easily charge your AccuBox using **solar power**: Connect your solar modules to the AccuBox via the yellow Anderson connection and the integrated solar charge controller will ensure efficient and gentle charging with solar energy.

## Charging time

You can find out how long it takes to fully recharge a completely discharged AccuBox in the following overview:

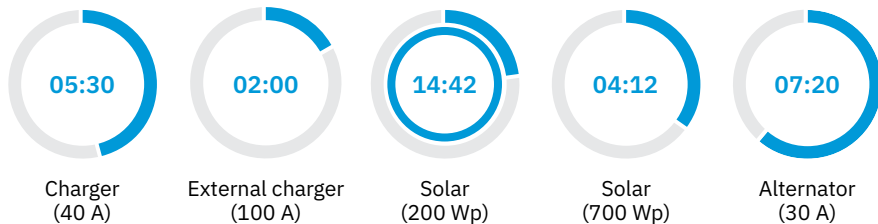
### AccuBox 120 S

120 Ah | 12,8 V | 1536 Wh



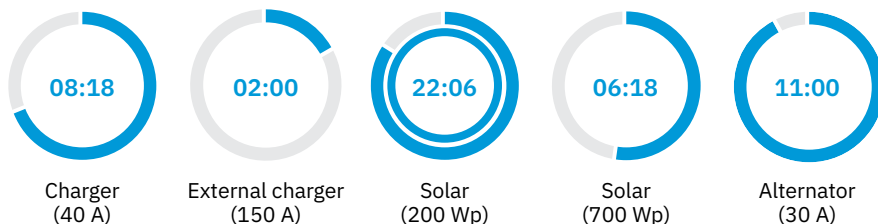
### AccuBox 200 S

200 Ah | 12,8 V | 2560 Wh



### AccuBox 300 S

300 Ah | 12,8 V | 3840 Wh



# ACCUBOX – CONVENIENT OPERATION

These features make the AccuBox extremely easy and safe to use.

## All values at a glance

The models of the latest AccuBox generation have an integrated, precise battery monitor (also available separately as ECTIVE BM X), which tracks all relevant operating values and shows them on a clear display. This means you always have access to all important information, such as charge/discharge, current charge level and remaining runtime. Thanks to the battery monitor's Bluetooth function, you can also easily connect your AccuBox to your smartphone via our integrated connectIVE app and view all the values on your smart device.

## Optimal safety

In addition to these practical operating options, the AccuBox is equipped with comprehensive safety functions: from the battery management system, which protects the built-in battery, to the RCD circuit breaker for maximum safety during operation. And should there ever be a problem, the 3-year ECTIVE manufacturer's guarantee applies!





# ALL-IN-ONE SOLUTIONS IN THE ECTIVE ECOSYSTEM

Absolute independence: electricity anywhere and at any time.

Whether camping, festivals or outdoor projects: The ECTIVE all-in-one solutions give you **maximum flexibility and independence**. All models have integrated inverters and MPPT solar charge controllers so you do not have to purchase these devices separately for operation. What's more, the powerful AccuBox models can even be used as a replacement for the supply battery in your caravan or motorhome. For ultimate independence,

combine your mobile all-in-one solution with ECTIVE **solar modules** so you can charge them completely self-sufficiently with solar energy thanks to the integrated MPPT charge controller. You can either use permanently mounted panels, for example on the roof of your camper or boat, or our lightweight, portable modules. With this absolute dream combination, you are truly independent, no matter where your journey takes you.



**ACTIVE** All you need for your project.

# INSTALLATION MATERIAL

**Execute your vision!**

With our extensive selection of installation material: [active.de/ausbau](https://active.de/ausbau)





# INSTALLATION MATERIAL

Turn your ideas into reality – with the usual high ECTIVE quality.

ECTIVE offers all the important components for your power supply: solar modules, batteries and complex devices such as charge controllers or inverters. But even with the smallest electrical components, you should pay attention to quality and high-quality workmanship. Are you converting your van

into a mobile home? Are you overhauling the power supply in your boat, motorhome or allotment? Then it's best to use ECTIVE's extensive range of **installation materials** for your work. Whether fuses, sockets, adapters or switches: you can find all these small parts in our online shop at [ective.de/ausbau](http://ective.de/ausbau).

## A few example products:



Mini battery disconnecter 100 A



Dual USB built-in socket 5 V, 2.4 A



Power distribution bar 6-fold 150A



Anderson connection to tubular cable lugs



Car flat fuse 15A



Anderson plug 175A



Anderson vehicle installation console / on-board power socket



Flat fuse holder (12 x) 30 A / 32 V



Car installation console 2xUSB and on-board power socket



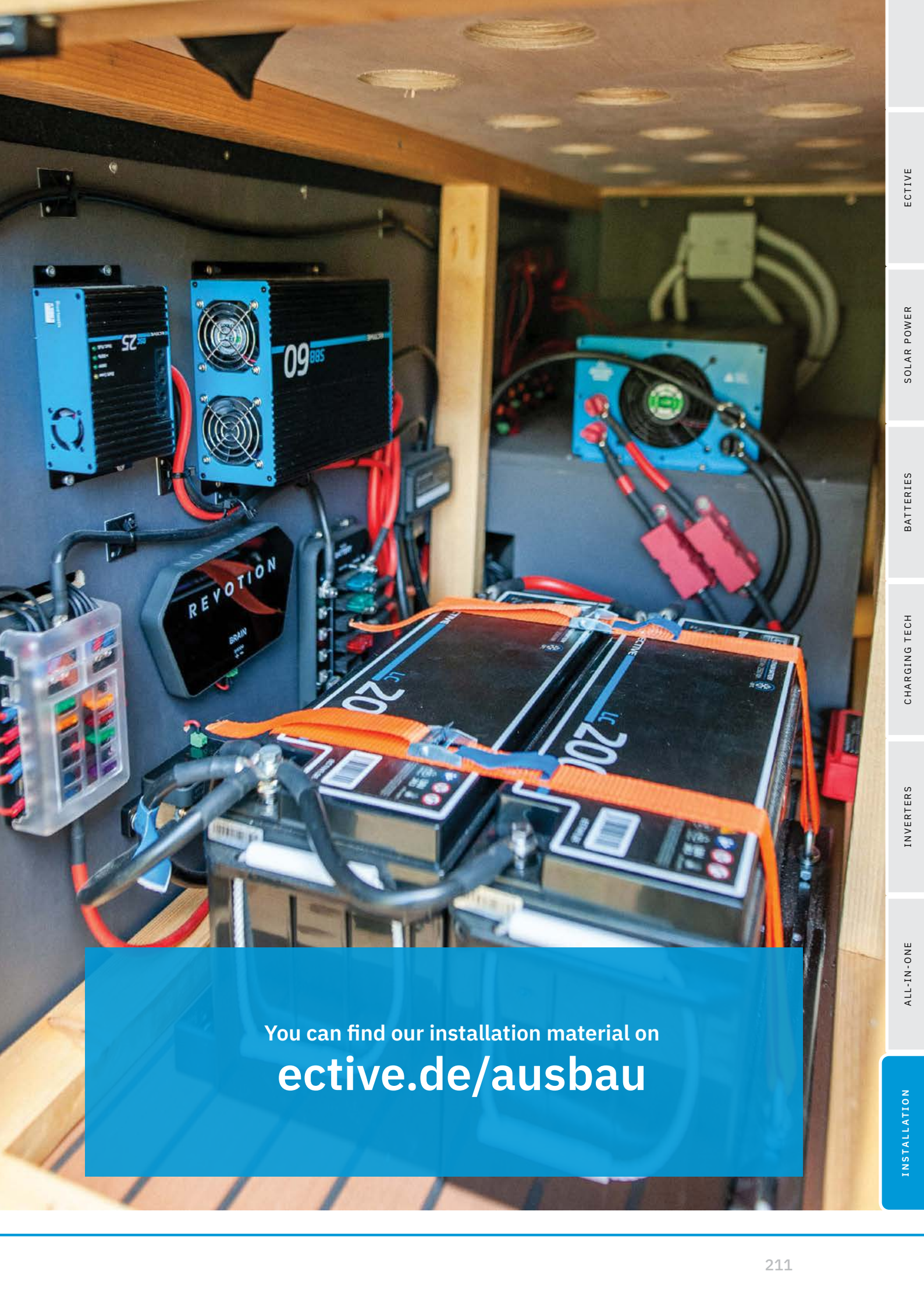
On-board power socket extension cable 3 m



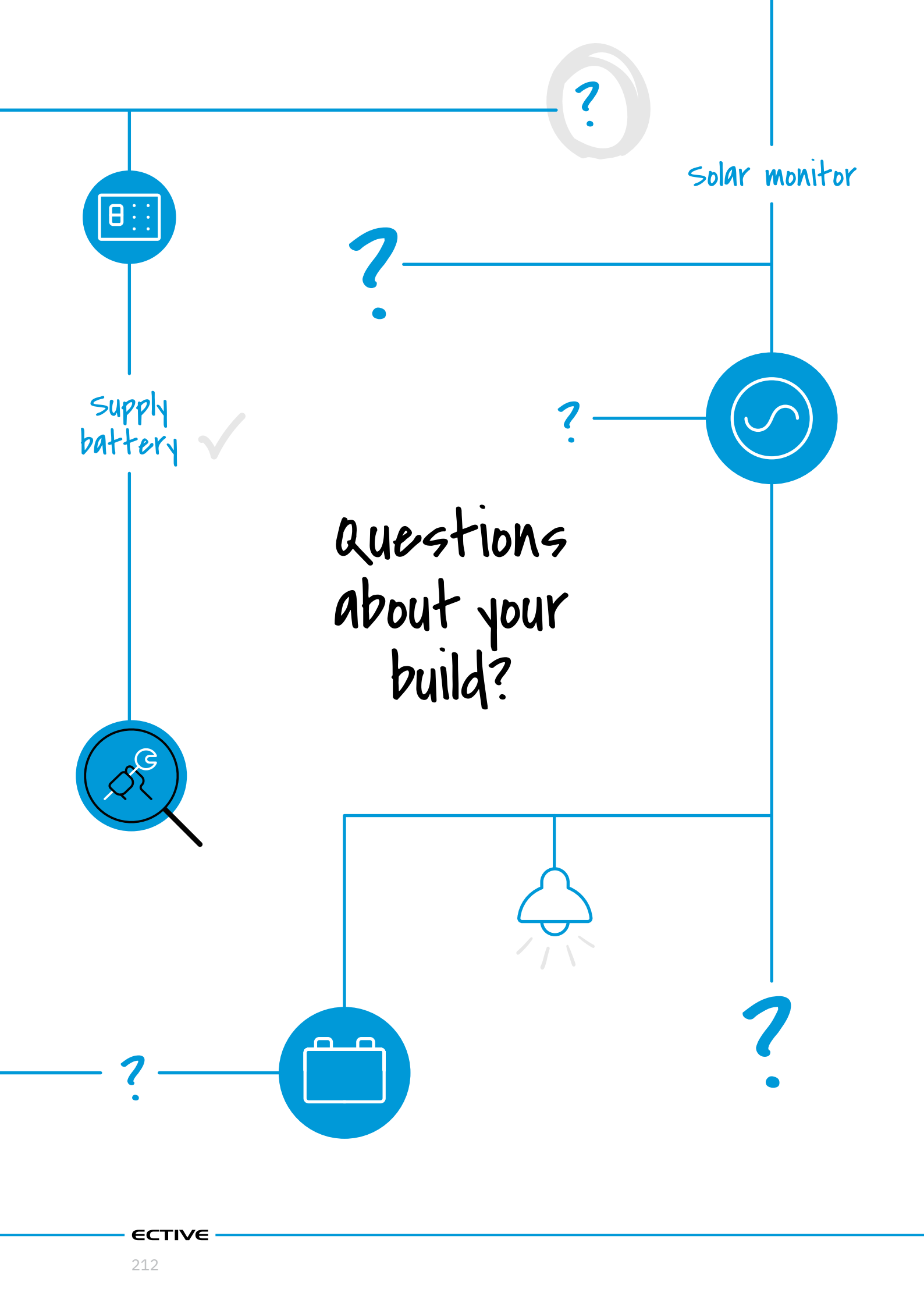
LED charge level indicator 12 / 24 V



OLED voltmeter panel socket 12/24 V



You can find our installation material on  
[elective.de/ausbau](https://elective.de/ausbau)



Solar monitor

Supply battery ✓

Questions  
about your  
build?

# Don't worry – help is nearby!

Do you need help installing or using our products?

We'll give you the help you need. Please contact one of our installation partners in your area. They will help you on your way to a mobile power supply.



Find an installation partner now!

[ective.de/einbaupartner-finden](https://ective.de/einbaupartner-finden)

# ECTIVE FOR B2B CUSTOMERS

Your advantages as a trading partner.

Are you a dealer, reseller or a potential expansion partner and would like to offer your customers high-quality solutions in the field of self-sufficient power supply?

Then become an ECTIVE trading partner and benefit from the advantages:

**Your own contact person**

**Discounted dealer purchase prices**

**Your own merchant account**

**Customised payment options**

**Prioritised shipping**

**Become a trading partner now!**

[active.de/handelspartner-werden](https://active.de/handelspartner-werden)



# OUR SALES TEAM

...is happy to help!

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# STAY IN TOUCH!

A few parting words.

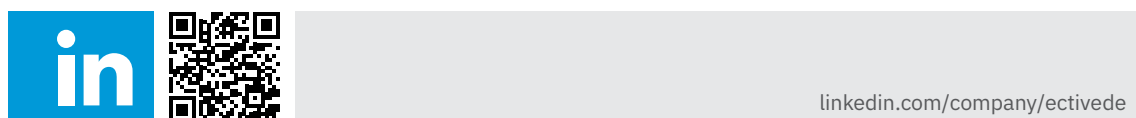
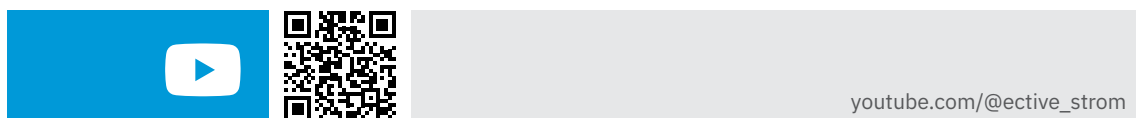
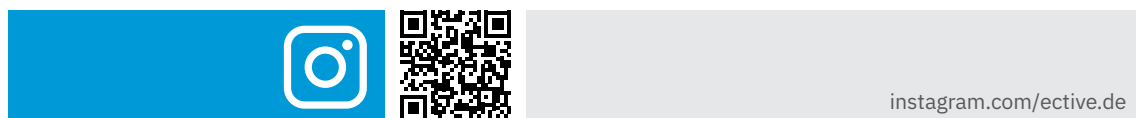
Would you like to find out more about ECTIVE and our products? Just visit our [website!](#)

Would you like to stay up to date or are you looking for inspiration for your next campervan conversion? Follow us on [Instagram!](#)

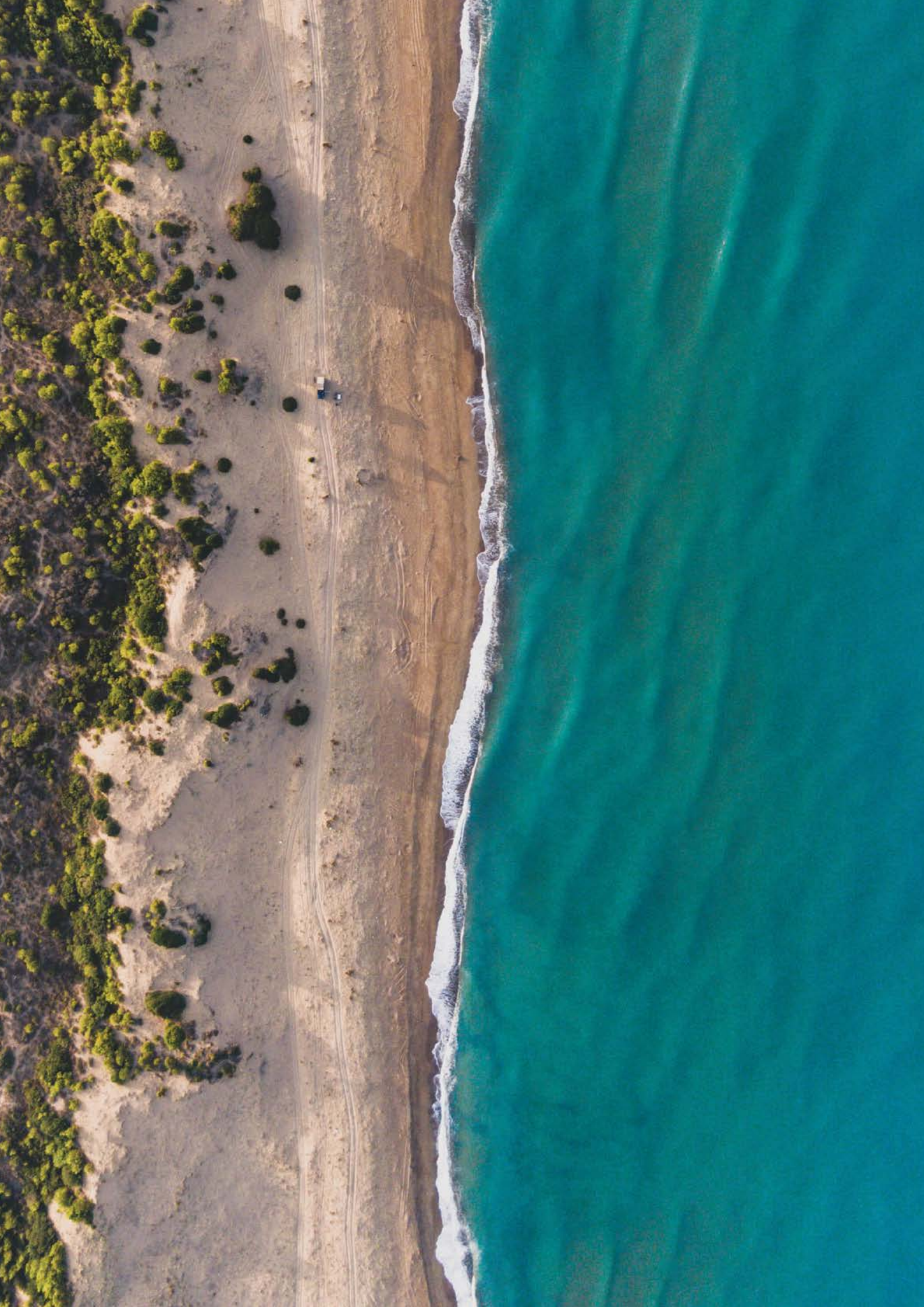
You want to stay up to date and get helpful tips on expanding, planning and implementing your mobile power supply? We are constantly publishing new content about self-sufficient power solutions on our [ECTIVE blog](#), on [LinkedIn](#) and on our [YouTube channel](#).

Do you have a specific question? Our [customer service team](#) will be happy to help you. They will provide you with fast, qualified help with any concerns about our products!

Our goal is to make your life easier with our ECTIVE products. Whether you're travelling by camper van, boat or simply with a rucksack. Whether you're travelling, at a festival or on a professional photo shoot, we want you to be able to concentrate fully on your adventure or project. A reliable power supply that runs efficiently and safely in the background gives you peace of mind so you can concentrate on the essentials: Experiencing unforgettable moments and creating priceless memories.



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