



# LC 35 L LiFePO4 Lithium Battery

12.8 V | 35 Ah | 448 Wh

## Electrical Specifications

|                  |                                   |
|------------------|-----------------------------------|
| Nominal Voltage  | 12,8 V                            |
| Nominal Capacity | 35 Ah                             |
| Capacity @ 25 A  | 84 min                            |
| Energy           | 448 Wh                            |
| Resistance       | ≤40 mΩ @ 50% SOC                  |
| Self Discharge   | <3% / month                       |
| Cell Type        | IFR26650EC - <chem>LiFePO4</chem> |

## Discharge Specifications

|                                    |                          |
|------------------------------------|--------------------------|
| Max. Continuous Discharge Current  | 35 A                     |
| Peak Discharge Current             | 50 A (5~10 s)            |
| BMS Discharge Cut-Off Current      | 200 A ± 25 A (12 ~32 ms) |
| Recommended Low Voltage Disconnect | 11 V                     |
| BMS Discharge Cut-Off Voltage      | >9.2 V (50 ~ 150 ms)     |
| Reconnect Voltage                  | >10 V (2.5 V / Cell)     |
| Short Circuit Protection           | 200 ~ 800 μs             |

## Charge Specifications

|                             |                       |
|-----------------------------|-----------------------|
| Recommended Charge Current  | 7 A                   |
| Maximum Charge Current      | 35 A                  |
| Recommended Charge Voltage  | 14.6 V                |
| BMS Charge Cut-Off Voltage  | <15.4 V (3.85 V/Cell) |
| Reconnect Voltage           | >14.6 V (3.65 V/Cell) |
| Balancing Voltage           | <14.4 V (3.6 V/Cell)  |
| Maximum Batteries in Series | 4                     |

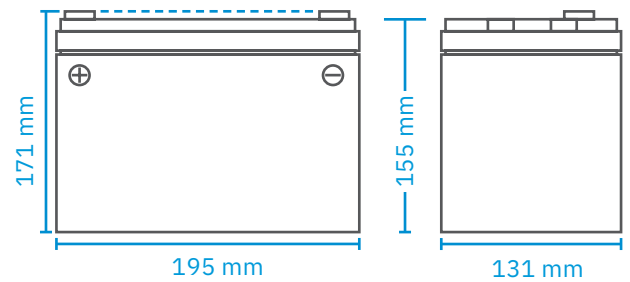
## Mechanical Specifications

|                          |                    |
|--------------------------|--------------------|
| Measurements (L x W x H) | 195 x 131 x 171 mm |
| Approx. Weight           | 4.8 kg             |
| Terminal Type            | M8                 |
| Terminal Torque          | 9 ~ 11 N m         |
| Case Material            | ABS                |
| Enclosure Protection     | IP65               |

## Temperature Specifications

|                              |             |
|------------------------------|-------------|
| Discharge Temperature        | -20 ~ 60 °C |
| Charge Temperature           | 0 ~ 45 °C   |
| Storage Temperature          | -5 ~ 35 °C  |
| BMS High Temperature Cut-Off | 75 °C       |
| Reconnect Temperature        | 53 °C       |

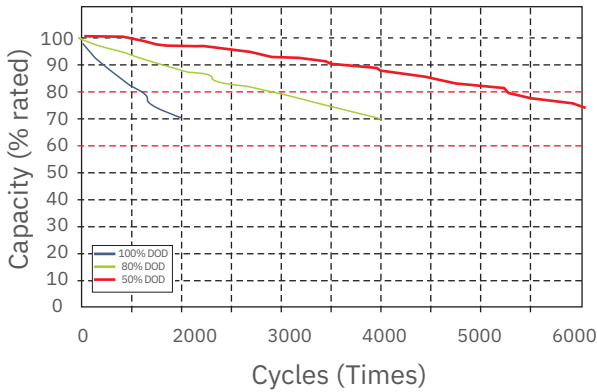
## Measurements



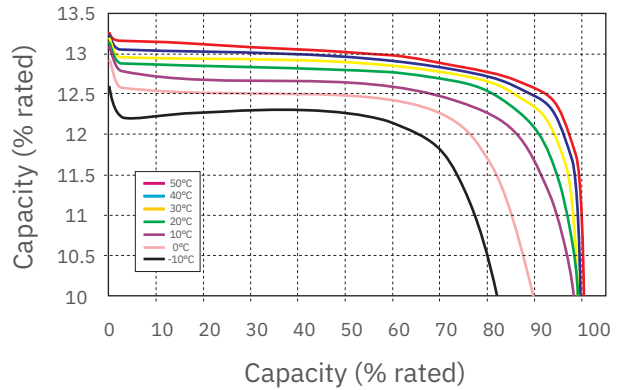
## Compliance

|                         |  |
|-------------------------|--|
| Certifications          | CE (Battery)<br>UN38.3 (Battery)<br>RoHS |
| Shipping Classification | UN 3480, CLASS 9                         |

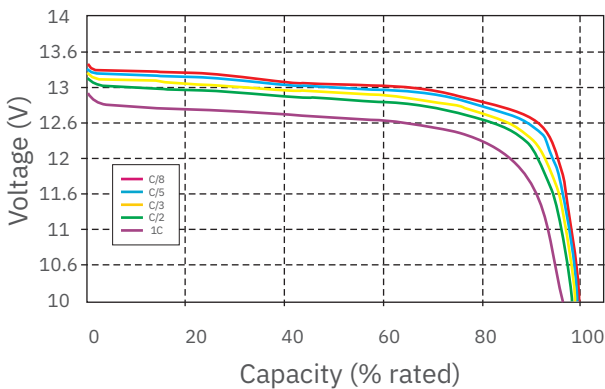
Cycle Life vs. Depth of Discharge (DOD)  
Discharge 0.5C / Charge 0.5C (25°C)



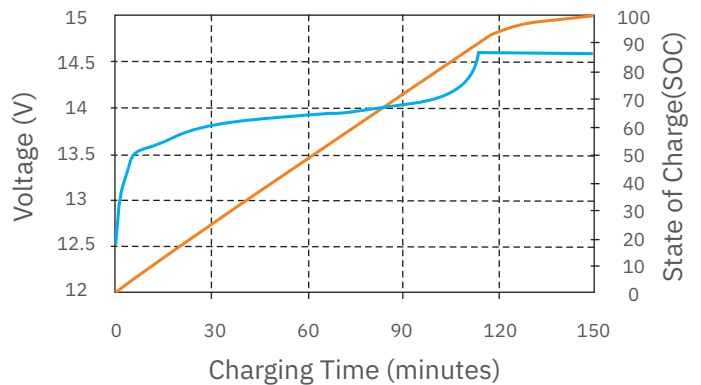
Discharge Voltage Profiles  
at 0.5C Discharge Rate  
(Various Ambient Temperatures)



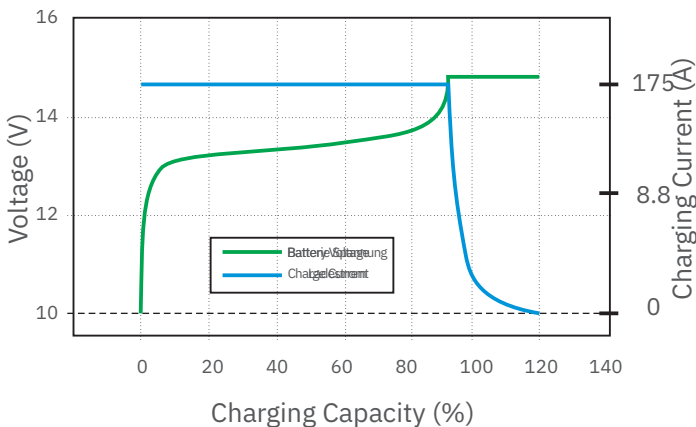
Discharge Voltage Profiles at Various Rates (25°C Ambient Temperature)



Typical Voltage and SOC Profiles at 0.5C Charging (25°C Ambient Temperature)



Charging Characteristics (0.5C at 20°C)



Constant Power Discharge Characteristics (25°C Ambient Temperature)

