

# LC 100

**LiFePO<sub>4</sub> Lithium Battery**  
12.8V | 100Ah | 1280Wh



## Electrical Specifications

|                    |                     |
|--------------------|---------------------|
| Nominal Voltage    | 12.8V               |
| Nominal Capacity   | 100Ah               |
| Capacity Tolerance | ± 4%                |
| Capacity @ 25 A    | 240min              |
| Energy             | 1280Wh              |
| Resistance         | ≤40mΩ               |
| Self Discharge     | <3 % / month        |
| Cell Type          | LiFePO <sub>4</sub> |

## Discharge Specifications

|                                    |                         |
|------------------------------------|-------------------------|
| Max. Continuous Discharge Current  | 150A                    |
| Peak Discharge Current             | 180A (22 ± 5s)          |
| BMS Discharge Cut-Off Current      | 280A (3s)               |
| Recommended Low Voltage Disconnect | 9.2 to 11.2V            |
| BMS Discharge Cut-Off Voltage      | > 10V (2.5V per cell)   |
| Reconnect Voltage                  | > 11.2V (2.8V per cell) |
| Short Circuit Protection           | 200 to 600µs            |

## Charge Specifications

|                             |                        |
|-----------------------------|------------------------|
| Recommended Charge Current  | ≤60A                   |
| Maximum Charge Current      | 80A                    |
| Recommended Charge Voltage  | 14.6V                  |
| BMS Charge Cut-Off Voltage  | 15V (3.75V per cell)   |
| Reconnect Voltage           | <14.4V (3.6V per cell) |
| Float Charge Voltage        | 13.8V                  |
| Maximum Batteries in Series | 4                      |

## Mechanical Specifications

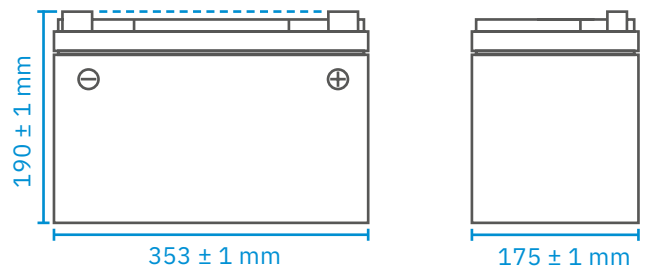
|                      |                                |
|----------------------|--------------------------------|
| Measurements (L×W×H) | 353 ± 1 × 175 ± 1 × 190 ± 1 mm |
| Approx. Weight       | 11.2 kg                        |
| Terminal Type        | Runde Pole                     |
| Terminal Torque      | 9 to 11 N m                    |
| Case Material        | ABS                            |
| Enclosure Protection | IP65                           |



## Temperatur

|                              |             |
|------------------------------|-------------|
| Discharge Temperature        | -20 to 60°C |
| Charge Temperature           | -30 to 45°C |
| Storage Temperature          | -10 to 45°C |
| BMS High Temperature Cut-Off | 65°C        |
| Reconnect Temperature        | 50°C        |

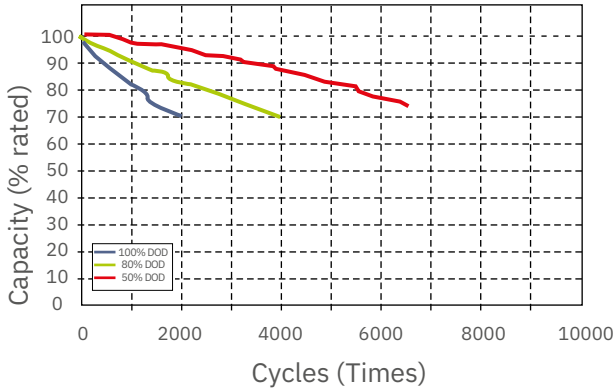
## Measurements



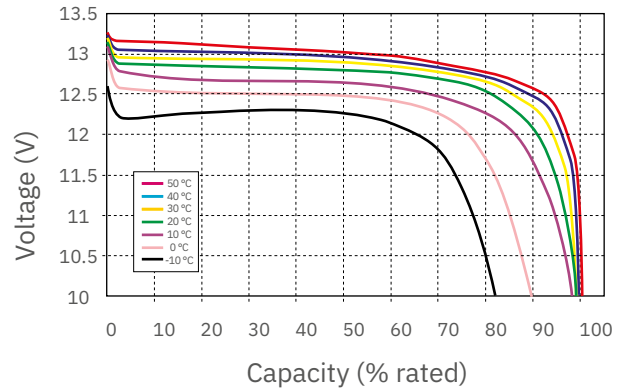
## Compliance

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

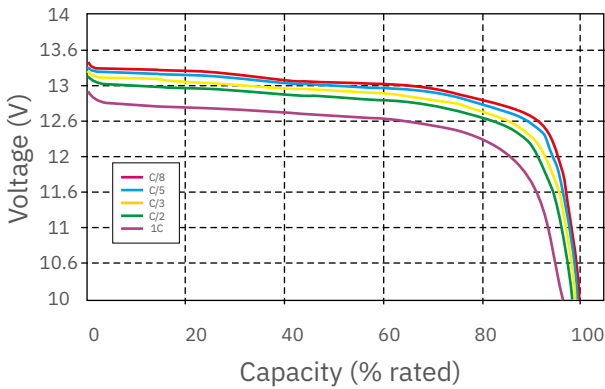
Cycle Life vs. Depth of Discharge (DOD)  
Discharge 0.5C / Charge 0.5C (25°C)



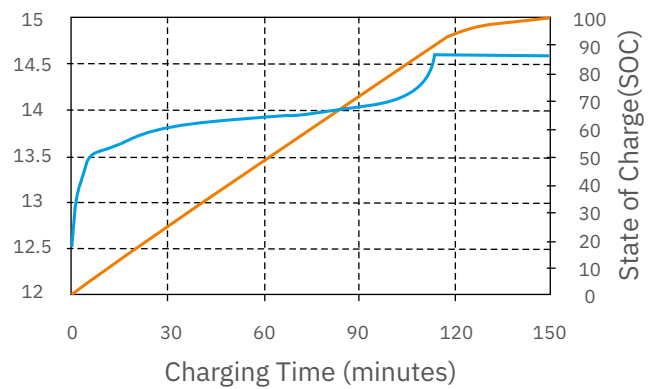
Discharge Voltage Profiles  
at 0.5C Discharge Rate  
(Various Ambient Temperatures)



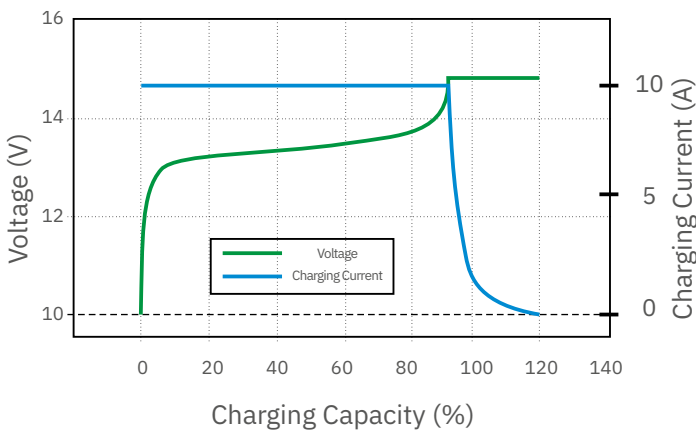
Discharge Voltage Profiles at Various Rates  
(25°C Ambient Temperature)



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)

