

LC 100

LiFePO₄ Lithium Battery
12.8V | 100Ah | 1280Wh



Electrical Specifications

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

Discharge Specifications

| | |
|------------------------------------|-------------------------|
| Max. Continuous Discharge Current | 100A |
| Peak Discharge Current | 130A (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

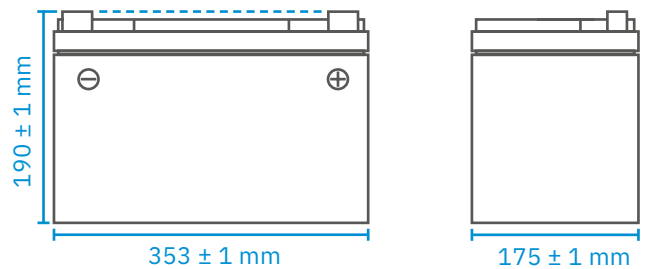
| | |
|----------------------|--------------------------------|
| Measurements (L×W×H) | 353 ± 1 × 175 ± 1 × 190 ± 1 mm |
| Approx. Weight | 11.2 kg |
| Terminal Type | Runde Pole |
| Terminal Torque | 9 to 11 N m |
| Case Material | ABS |
| Enclosure Protection | IP65 |



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 |

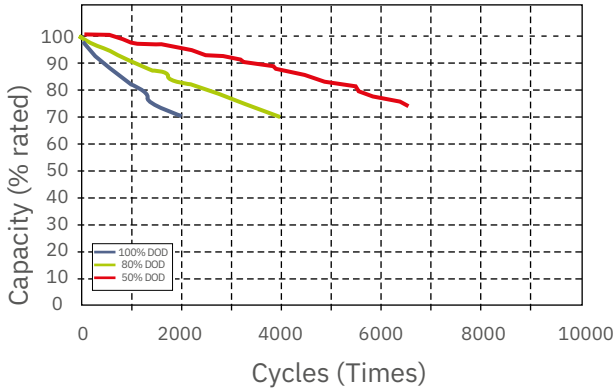
Measurements



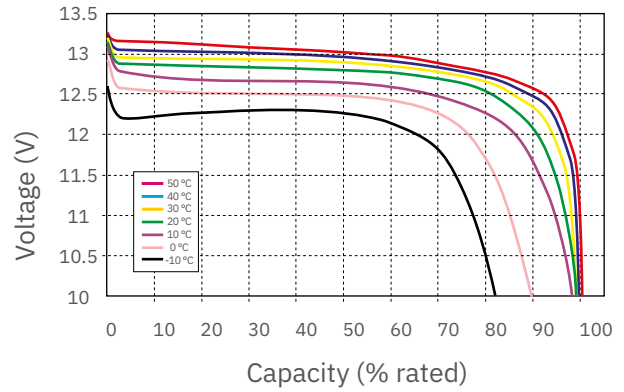
Compliance

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

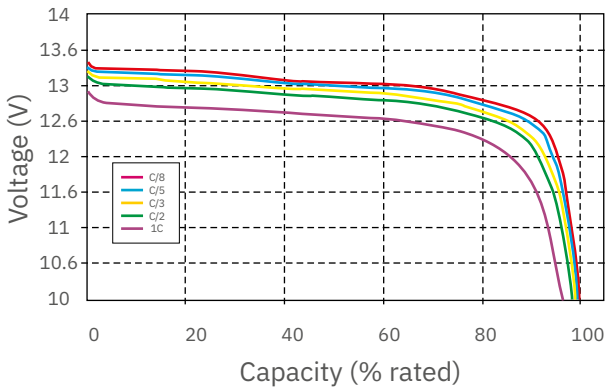
Cycle Life vs. Depth of Discharge (DOD)
Discharge 0.5C / Charge 0.5C (25°C)



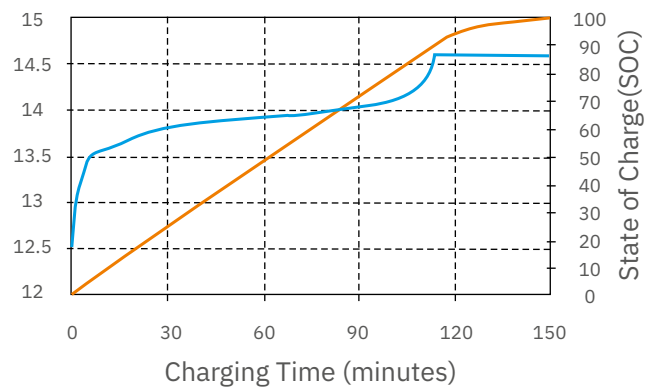
Discharge Voltage Profiles
at 0.5C Discharge Rate
(Various Ambient Temperatures)



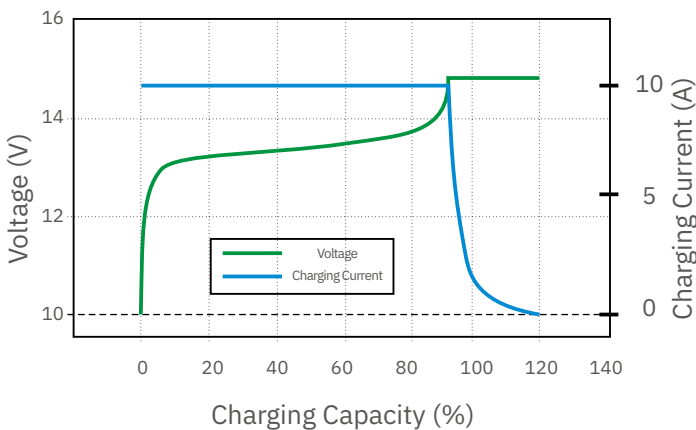
Discharge Voltage Profiles at Various Rates
(25°C Ambient Temperature)



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)

