

LC 150

LiFePO₄ Lithium Battery
12.8V | 150Ah | 1920Wh



Electrical Specifications

Nominal Voltage	12.8 V
Nominal Capacity	150 Ah
Capacity Tolerance	± 4 %
Capacity @ 25 A	360 min
Energy	1920 Wh
Resistance	≤ 40 mΩ
Self Discharge	< 3 % / month
Cell Type	LiFePO ₄

Discharge Specifications

Max. Continuous Discharge Current	150 A
Peak Discharge Current	300 A (22 ± 5 s)
BMS Discharge Cut-Off Current	500 A (3 s)
Recommended Low Voltage Disconnect	11.2 V
BMS Discharge Cut-Off Voltage	> 10 V (2.5 V/cell)
Reconnect Voltage	> 12 V (3 V/cell)
Short Circuit Protection	800 A to 500 μs

Charge Specifications

Recommended Charge Current	≤ 60 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.0 to 14.6 V
BMS Charge Cut-Off Voltage	15 V (3.75 V/cell)
Reconnect Voltage	< 14.4 V (3.6 V/cell)
Float Charge Voltage	13.6 to 13.8 V
Maximum Batteries in Series	4

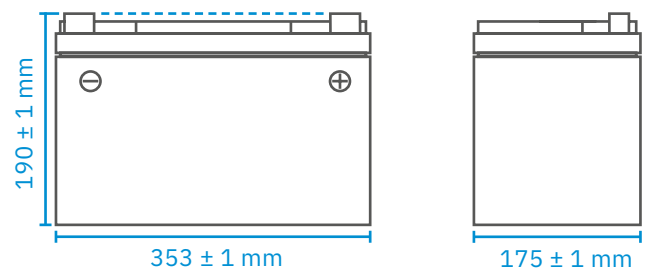
Mechanical Specifications

Measurements	353±1×175±1×190±1 mm
Approx. Weight	15.5 kg
Terminal Type	Round poles
Terminal Torque	9 to 11 N m
Case Material	ABS
Enclosure Protection	IP65

Temperature Specifications

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

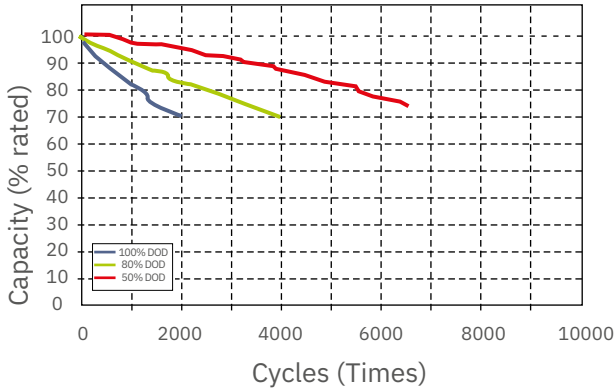
Measurements



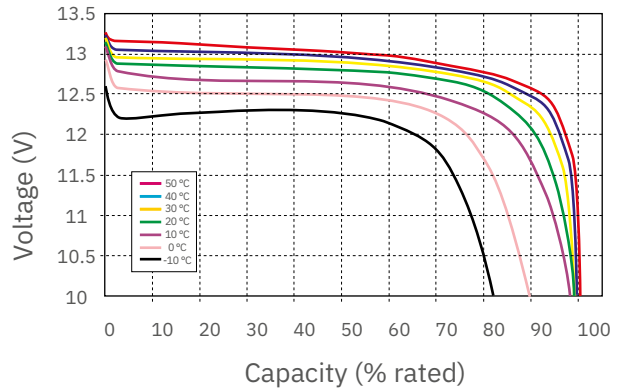
Compliance

Certifications	CE (Batterie) UN38.3 (Batterie) RoHS
Shipping Classification	UN 3480, CLASS 9

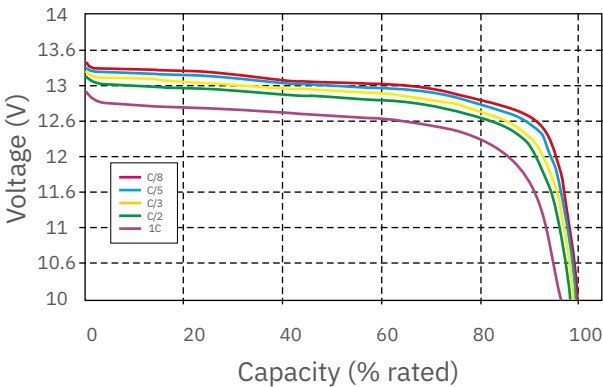
**Cycle Life vs. Depth of Discharge (DOD)
Discharge 0.5C / Charge 0.5C (25°C)**



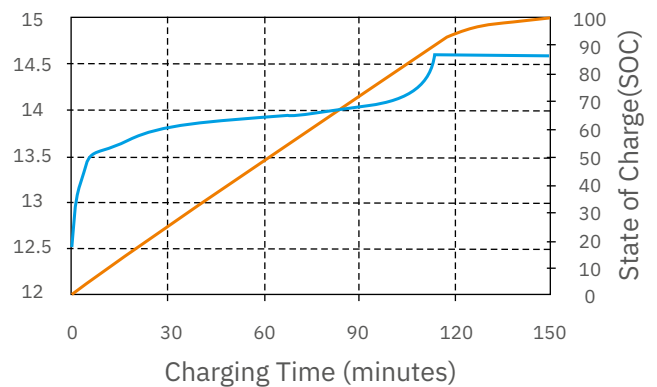
**Discharge Voltage Profiles at 0.5C Discharge Rate
(Various Ambient Temperatures)**



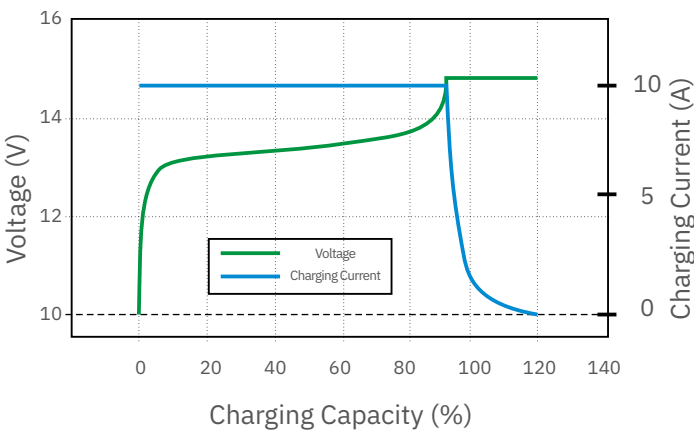
Discharge Voltage Profiles at Various Rates (25°C Ambient Temperature)



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)

