

LC 100L

LiFePO₄ Lithium Battery
12.8V | 100Ah | 1280Wh



Electrical Specifications

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 25 A	240min
Energy	1280Wh
Resistance	≤20mΩ
Self Discharge	<3 % / month
Cell Type	LiFePO ₄

Discharge Specifications

Max. Continuous Discharge Current	100A
Peak Discharge Current	120A (30 ± 5s)
BMS Discharge Cut-Off Current	300A (2s)
Recommended Low Voltage Disconnect	9V
BMS Discharge Cut-Off Voltage	> 8V (2V per cell)
Reconnect Voltage	> 9.2V (2.3V per cell)
Short Circuit Protection	200 to 600µs

Charge Specifications

Recommended Charge Current	≤60A
Maximum Charge Current	100A
Recommended Charge Voltage	14.6V
BMS Charge Cut-Off Voltage	15.2V (3.8V per cell)
Reconnect Voltage	<14.4V (3.6V per cell)
Float Charge Voltage	13.8V
Maximum Batteries in Series	4

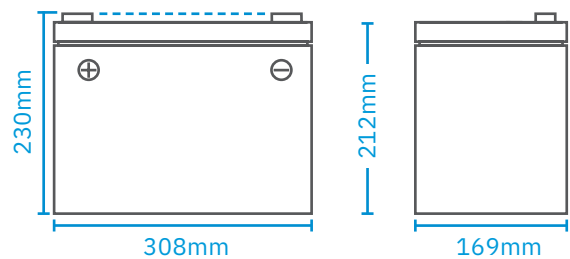
Mechanical Specifications

Measurements (L × W × H)	308 × 169 × 230mm
Approx. Weight	12.5 kg
Terminal Type	M8
Terminal Torque	9 to 11 N m
Case Material	ABS
Enclosure Protection	IP65

Temperature Specifications

Discharge Temperature	-20 to 60°C
Charge Temperature	0 to 45°C
Storage Temperature	-10 to 45°C
BMS High Temperature Cut-Off	65°C
Reconnect Temperature	50°C

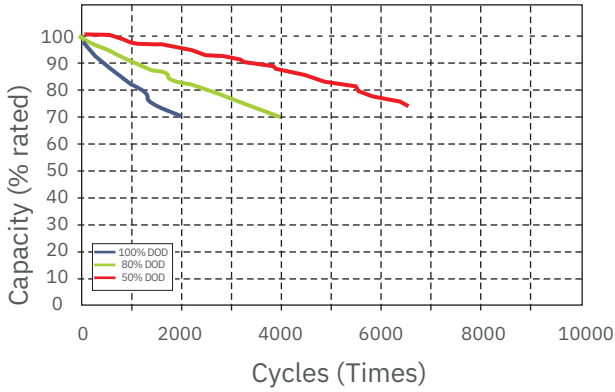
Measurements



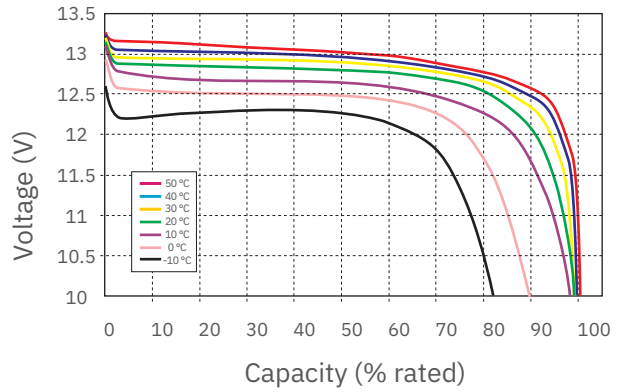
Compliance

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

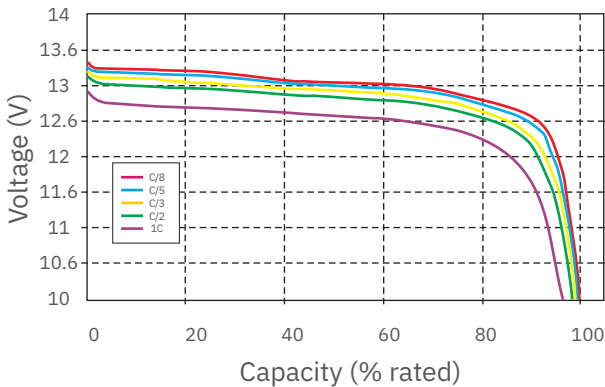
Cycle Life vs. Depth of Discharge (DOD)
Discharge 0.5C / Charge 0.5C (25°C)



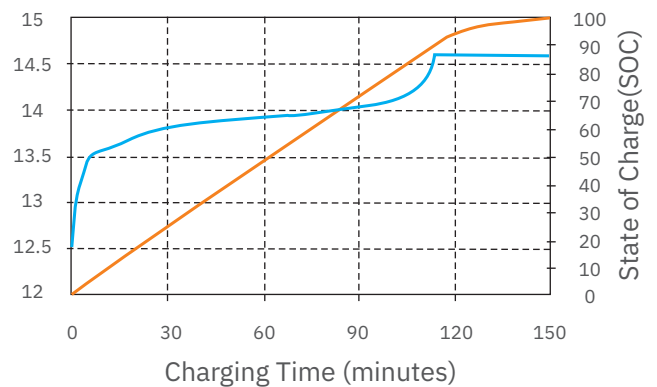
Discharge Voltage Profiles
at 0.5C Discharge Rate
(Various Ambient Temperatures)



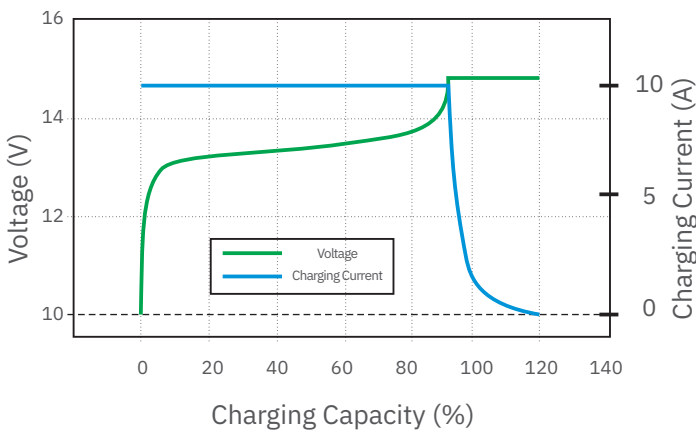
Discharge Voltage Profiles at Various Rates
(25°C Ambient Temperature)



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)

