

LC 80L

LiFePO₄ Battery | 12.8V | 80Ah | 1024Wh



Electrical Specifications

Nominal Voltage	12.8V
Nominal Capacity	80Ah
Capacity Tolerance	± 4%
Capacity @ 25 A	192min
Energy	1024Wh
Resistance	≤ 15 mΩ @ 50% SOC
Self Discharge	< 3% / month
Cell Type	IFR26650EC - LiFePO ₄

Discharge Specifications

Max. Continuous Discharge Current	80A
Peak Discharge Current	160A (3s)
BMS Discharge Cut-Off Current	240A ±5A (31ms)
Recommended Low Voltage Disconnect	11V
BMS Discharge Cut-Off Voltage	> 8.0V (14 to 26ms)
Reconnect Voltage	> 10V
Short Circuit Protection	200 to 600μs

Charge Specifications

Recommended Charge Current	16A
Maximum Charge Current	80A
Recommended Charge Voltage	14.6V
BMS Charge Cut-Off Voltage	< 15.6V (0.8 to 1.2s)
Reconnect Voltage	> 14.4V
Float Charge Voltage	< 14.4V
Maximum Batteries in Series	4

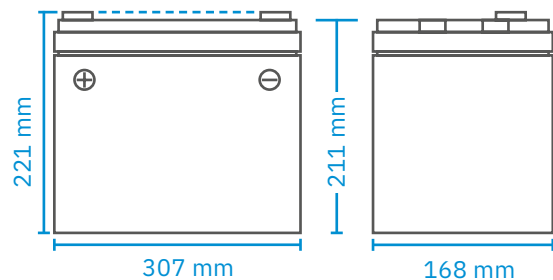
Mechanical Specifications

Measurements (L × W × H)	307 × 168 × 221 mm
Approx. Weight	10.4 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	-5 to 35°C
BMS High Temperature Cut-Off	65°C
Reconnect Temperature	55°C

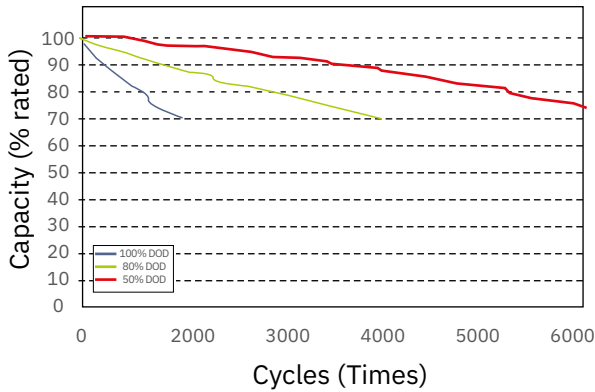
Measurements



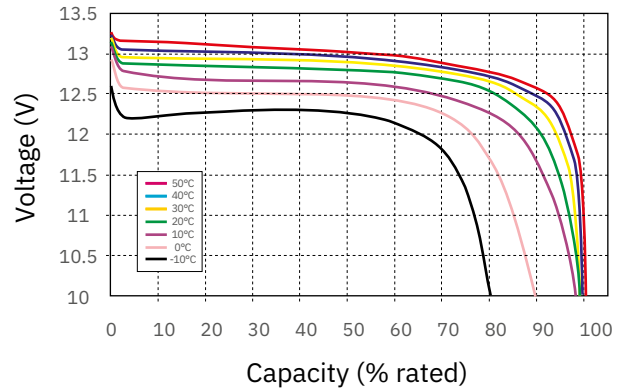
Compliance

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

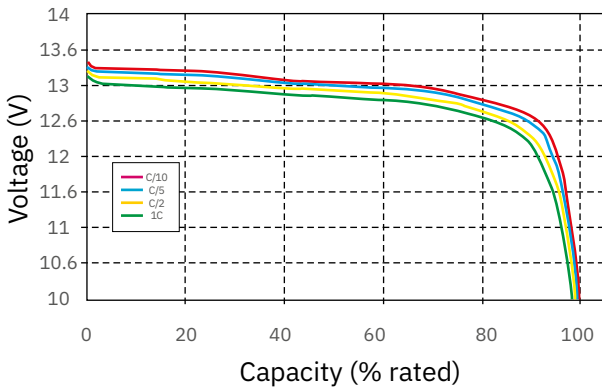
**Cycle Life vs. Depth of Discharge (DOD)
Discharge 0.5C / Charge 0.5C (25°C)**



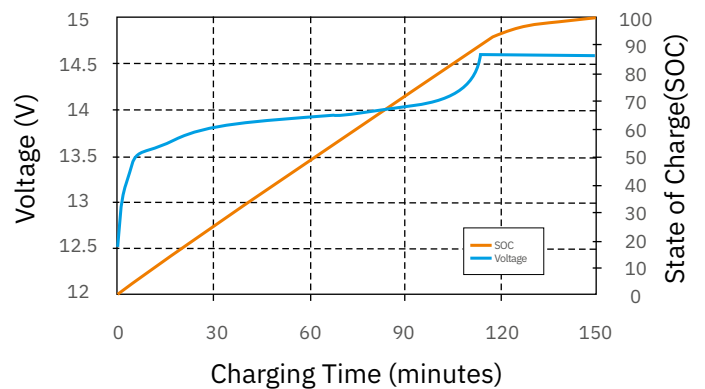
**Discharge Voltage Profiles
at 0.5C Discharge Rate
(Various Ambient Temperatures)**



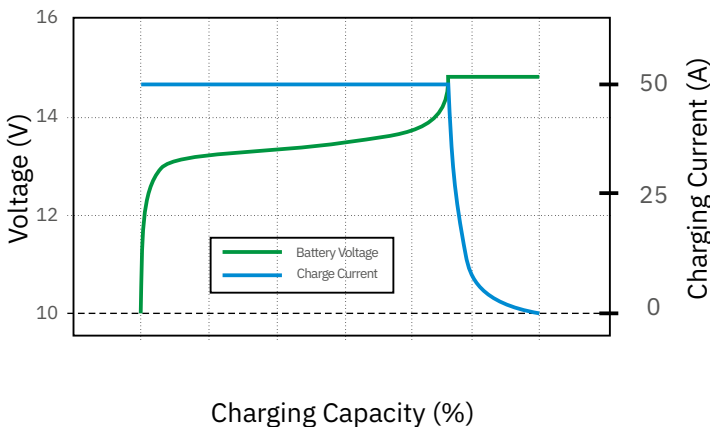
**Discharge Voltage Profiles at Various
Rates (25°C Ambient Temperature)**



**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)**

