



LC 22 L

LiFePO₄ Lithium Battery

12.8 V | 22 Ah | 281.6 Wh

Electrical Specifications

Nominal Voltage	12,8 V
Nominal Capacity	22 Ah
Capacity @ 25 A	53 min
Energy	281.6 Wh
Resistance	≤50 mΩ @ 50% SOC
Self Discharge	<3% / month
Cell Type	IFR26650EC - LiFePO ₄

Discharge Specifications

Max. Continuous Discharge Current	15 A
Peak Discharge Current	25 A (5 min)
BMS Discharge Cut-Off Current	55 A ±10 A (5 ~13 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Cut-Off Voltage	8.0 V (10 ~ 400 ms)
Reconnect Voltage	10.8 V (2.7 V / Cell)
Short Circuit Protection	200 ~ 800 μs

Charge Specifications

Recommended Charge Current	4.4 A
Maximum Charge Current	10 A
Recommended Charge Voltage	14.6 V
BMS Charge Cut-Off Voltage	15.6 V (3.9 V/Cell)
Reconnect Voltage	>14.6 V (3.65 V/Cell)
Balancing Voltage	<14.4 V (3.6 V/Cell)
Maximum Batteries in Series	0

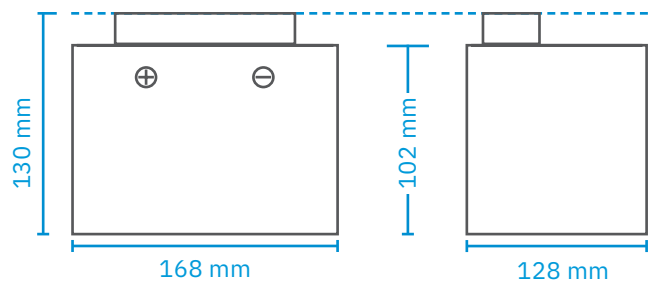
Mechanical Specifications

Measurements (L x W x H)	168 x 128 x 130 mm
Approx. Weight	3.1 kg
Terminal Type	T-Bar
Case Material	ABS
Enclosure Protection	IP65

Temperature Specifications

Discharge Temperature	-20 ~ 60 °C
Charge Temperature	0 ~ 45 °C
Storage Temperature	-5 ~ 35 °C
BMS High Temperature Cut-Off	65 °C
Reconnect Temperature	48 °C

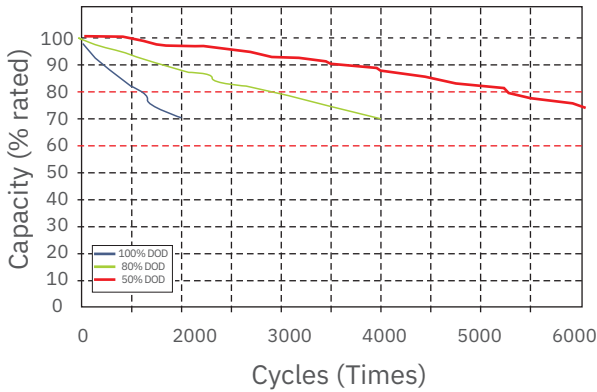
Measurements



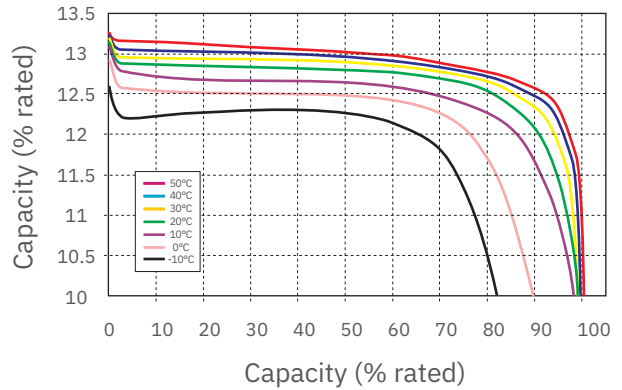
Compliance

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

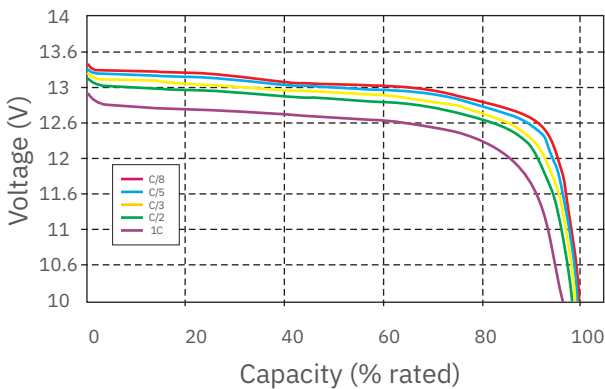
Cycle Life vs. Depth of Discharge (DOD)
Discharge 0.5C / Charge 0.5C (25°C)



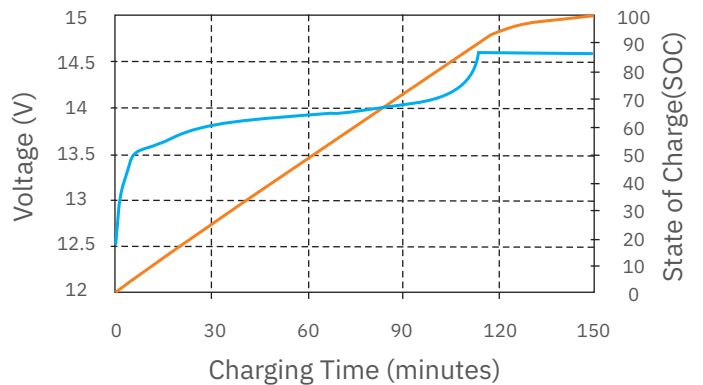
Discharge Voltage Profiles
at 0.5C Discharge Rate
(Various Ambient Temperatures)



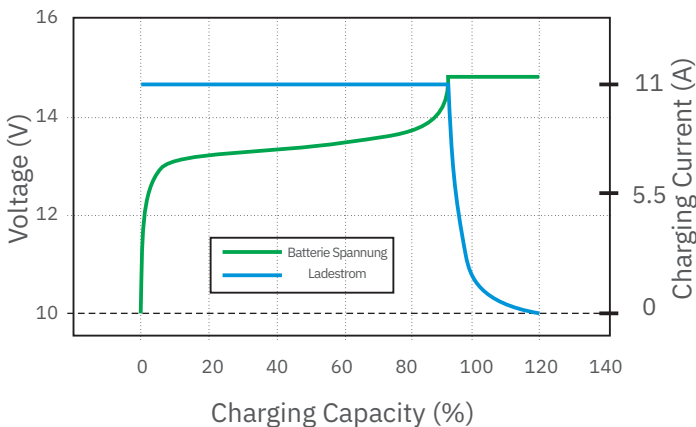
Discharge Voltage Profiles at Various
Rates (25°C Ambient Temperature)



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)

