

Electrical Specifications

Nominal Voltage	12,8 V
Nominal Capacity	50 Ah
Capacity at 25 A	120 min
Energy	640 Wh
Resistance	≤ 30 m Ω @ 50 % SOC
Self Discharge	< 3% / month
Cell Type	IFR26650EC - LiFePO ₄

Discharge Specifications

Discharge Current	50 A
Peak Discharge Current	100 A (3 s)
BMS Discharge Cut-Off Current	150 A ± 5 A (31 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Cut-Off Voltage	>8 V (50 ~ 150 ms)
Reconnect Voltage	>10 V (2.5 V / Cell)
Short Circuit Protection	200 ~ 600 μs

Charge Specifications

Recommended Charge Current	10 A
Maximum Charge Current	50 A
Recommended Charge Voltage	14.6 V
BMS Charge Cut-Off Voltage	<15.4 V (3.85 V/Cell)
Reconnect Voltage	>14.6 V (3.65 V/Cell)
Balancing Voltage	<14.4 V (3.6 V/Cell)
Maximum Batteries in Series	4

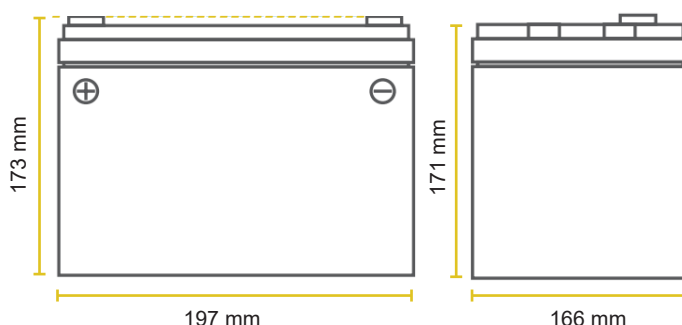
Mechanical Specifications

Measurements (L x W x H)	197 x 166 x 176 mm
Approx. Weight	6.30 kg
Terminal Type	M8
Terminal Torque	9 ~ 11 Nm
Case Material	ABS
Enclosure Protection	IP65

Temperature Specifications

Discharge Temperature	-20 ~ 55 °C
Charge Temperature	0 ~ 45 °C
Storage Temperature	-5 ~ 35 °C
BMS High Temperature Cut-Off	65 °C
Reconnect Temperature	55 °C

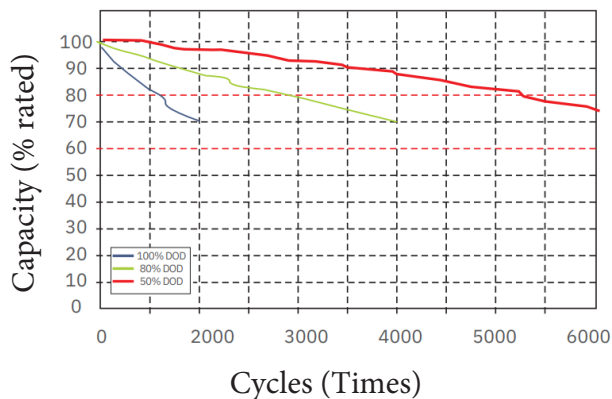
Measurements



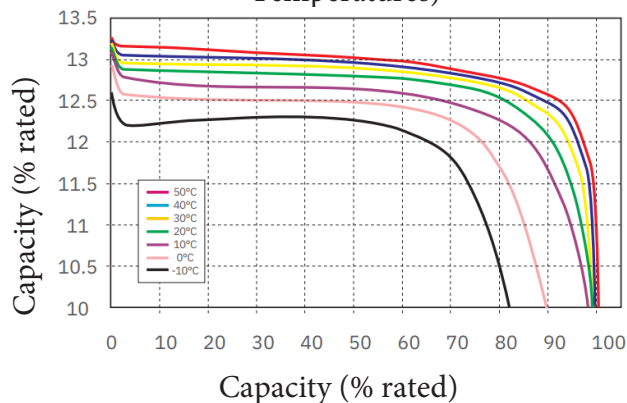
Compliance

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

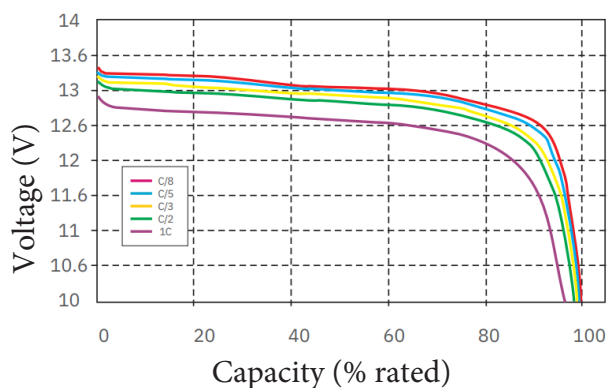
Cycle Life vs. Depth of Discharge
(DOD) Discharge 0.5C /
Charge 0.5C (25°C)



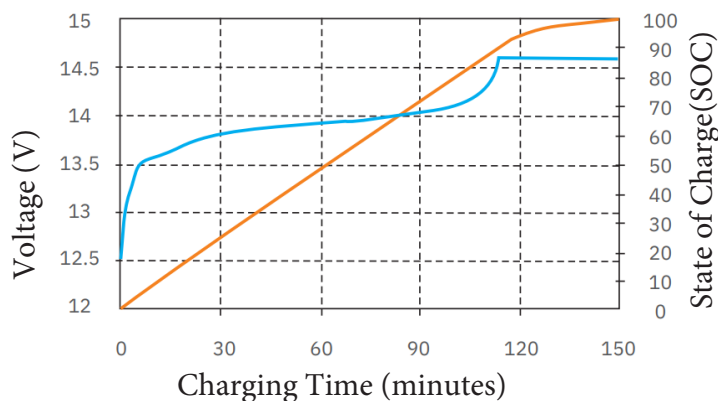
Discharge Voltage Profiles
at 0.5C Discharge Rate
(Various Ambient
Temperatures)



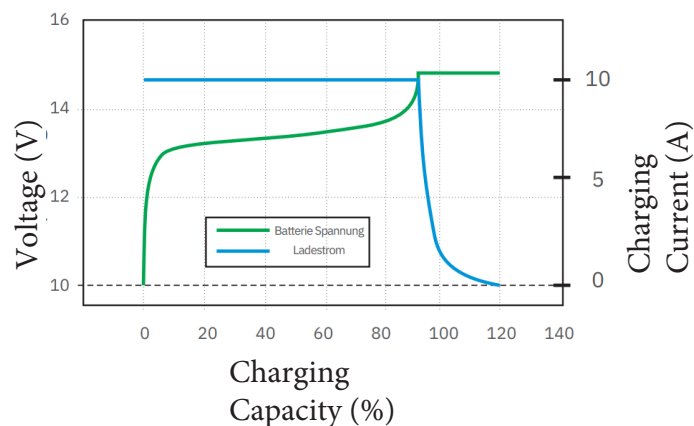
Discharge Voltage Profiles at
Various Rates
(25°C Ambient Temperature)



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)

