

DRIVE MOTION LITHIUM DATA SHEET



LFP12.8V50AH



Electrical Specifications

Nominal Voltage	12.8 V
Nominal Capacity	50 Ah
Energy	640 Wh
Self Discharge	≈3% per month
Efficiency	>98%
Parallel Support	Yes, Max 4 Sets
Series Support	Yes, Max 4 Sets

Discharge Specifications

Max. Discharge Current	50 A
End of Discharge Voltage	11.2 V
Pulse Discharge Current	100 A @ 10s
Low Voltage Disconnect	10 V
Low Voltage Reconnect	11.2 V

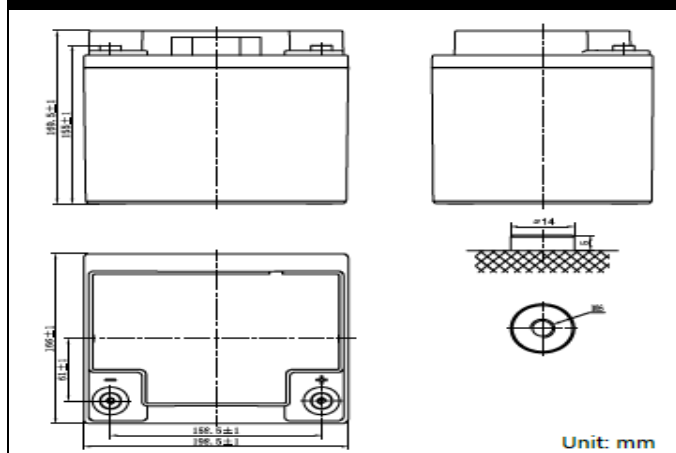
Charge Specifications

Charging Voltage	14.6 V
Max. Charging Current	50 A
Recommended Charging Current	5 A - 25 A
High Voltage Disconnect	14.8 V
High Voltage Reconnect	13.8 V

Temperature Specifications

Discharge Temperature	-20°C - +55°C (-4°F - +131°F)
Charge Temperature	0°C - +55°C (32°F - +131°F)
Storage Temperature	-10°C - +45°C (14°F - +113°F)
High Temperature Disconnect	+75°C (+167°F)
High Temperature Reconnect	+70°C (+158°F)
Low Temperature Disconnect	-20°C (-4°F)
Low Temperature Reconnect	-15°C (5°F)

Dimensional Specifications



Mechanical Specifications

Dimensions	198 x 166 x 169 7.68 x 5.12 x 6.10
Weight	6.5 Kg (14.3 lbs)
Terminal Type	F11
Terminal Torque	3.9N/m
Enclosure Protection	IP65

Conception & Compliance

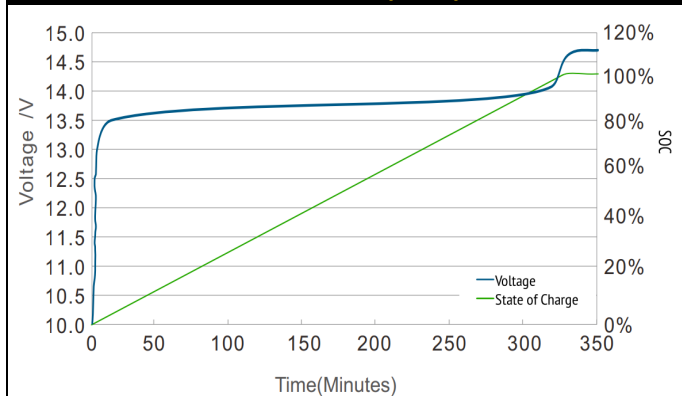
Conception	4S
Cell Type	Grade A Prismatic LiFePO4 cells (50Ah)
Certifications	UN38.3 & CE (battery), UL1642 (cells)
Shipping Classification	UN 3480, CLASS 9

DRIVE MOTION

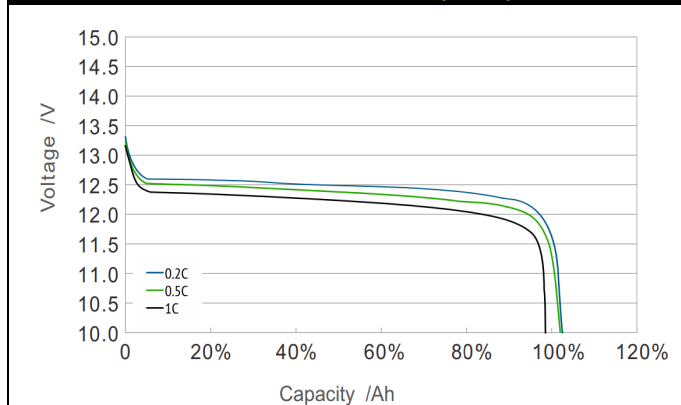
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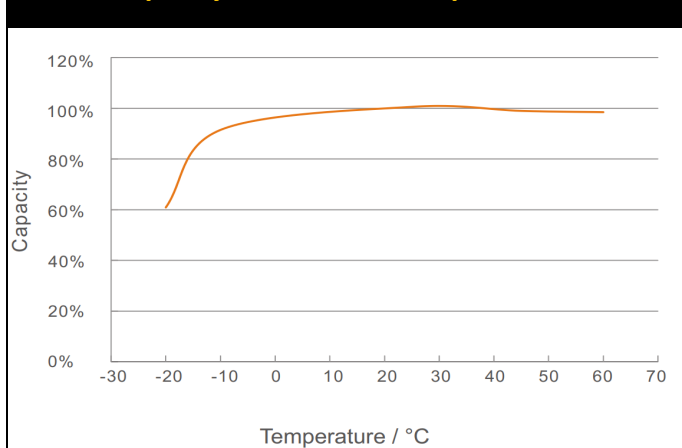
**Charge Voltage & State of Charge (SOC)
0.2C@25°C (77°F)**



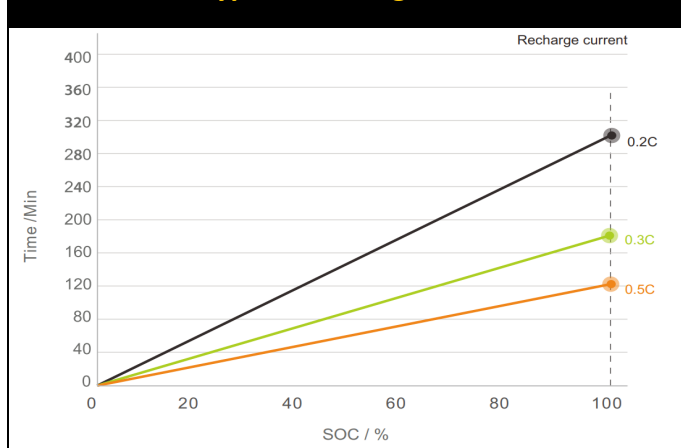
**Discharge Voltage Characteristics at
Various Rates 25°C (77°F)**



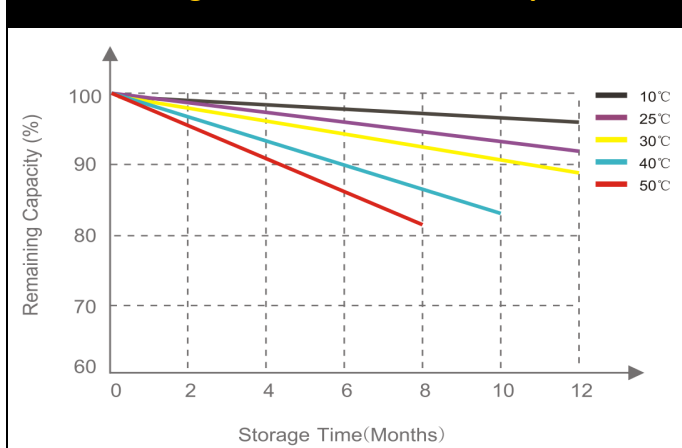
Capacity at Different Temperatures



Typical Recharge Time



Self Discharge Curve at Different Temperatures



Typical Cycle Life

