

12V 50Ah

LITHIUM IRON PHOSPHATE BATTERY



GENERAL

Nominal Voltage	12.8 V
Working Voltage	10.0V - 14.4 V
Nominal Capacity	50 Ah
Energy	640 Wh
Cycle Life	>6,000 cycles @ 0.2C, 80% DoD
Calendar Life	10 - 12 years
Usable Depth of Discharge	80%
Self Discharge	≤3% Per Month

CHARGING

Charge Method	CC/CV
Rec. Charging Current	10 A
Max Charging Current	50 A
Charge Voltage	14.4 ±0.2V
BMS High Voltage Cutoff	14.4 V
Charging Temp. Range	32°F to 122°F (0°C to 50°C)
Storage Temperature	32°F to 113°F (0°C to 45°C)

DISCHARGING

Rec. Continuous Discharge	50 A
Reserve @ 10A	300 Minutes
Max Continuous Output Power	640 W
Rec. Voltage Cutoff	11.2 V
BMS Voltage Cutoff	10.0 V
BMS Voltage Recovery	10.8 V
Discharge Temp Range	-4°F to 140°F (-20°C to 60°C)

PHYSICAL

Cell Chemistry	Lithium Iron Phosphate
Cell Type	Prismatic
Cell Configuration	4S1P
Series Connectable	Up to 4
Parallel Connectable	Up to 4
Weight	12.35 Lbs
Dimensions (LxWxH)	8.82 x 5.91 x 6.97 in
Terminal Type	M6
Shell Type	Plastic
UN Shipping Class	UN 3480

PROTECTION

Certifications	UN38.3, CE
IP Rating	IP65
Pack & Cell Over-Voltage	✓ Pack & Cell Under-Voltage ✓
Cell & BMS Over-Temp	✓ Short Circuit / Over Current ✓
	Charging Freeze ✓