

## **RB12V**50**AH**



## LITHIUM IRON PHOSPHATE BATTERY

Iominal Voltage	12.8 V
Iominal Capacity	50 Ah
Capacity @ 25A	150 min
nergy	640 Wh
esistance	$\leq\!30$ m $\Omega$ @ 50% SOC
fficiency	99%
elf Discharge	<2% per Month
aximum Modules in Parallel	16
Naximum Modules in Series	4 (48 Volts)
ISCHARGE SPECIFICATIONS	
aximum Continuous Discharge Current	50 A
eak Discharge Current	110 A (0.7 s)
MS Discharge Current Cut-Off	110 A (10s)
ecommended Low Voltage Disconnect	10.5 V
MS Discharge Voltage Cut-Off	10 V (2s)
econnect Voltage	12 V
ort Circuit Protection	780A @ 400µs

TEMPERATURE SPECIFICATIONS	
Discharge Temperature	14 to 167 °F (-10 to 75 °C)
Charge Temperature*	29 to 149 °F (-2 to 65 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	158 °F (70 °C)
*Refer to charge currents below 32°F (0°C)	

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Dimensions (L x W x H)	8.75" x 5.875" x 7.25" 222 x 149 x 184 mm	
Weight	~15 lbs (7 kg)	
Terminal Type	M6	
Terminal Torque	80 - 100 in-lbs (9 - 11 N-n	
Case Material	ABS	
Enclosure Protection	IP55	
Cell Type - Chemistry	Prismatic - LiFePO <sub>4</sub>	
CHARGE SPECIFICATIONS		
Recommended Charge Current	1 A - 50 A	
Maximum Charge Current	50 A	
Recommended Charge Voltage	14.2 - 14.6 V	
Bulk / Absorb Voltage	14.2 - 14.6 V	
Float Voltage	13.4 - 13.7 V	
COMPLIANCE SPECIFICATIONS		
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells	

UN 3480, CLASS 9

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**Shipping Classification** 





## **PERFORMANCE CHARACTERISTICS**



















