

# **RB24V20**



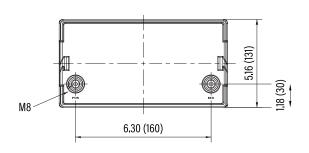
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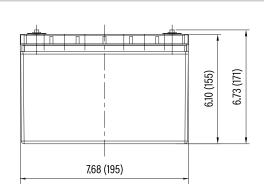
### **LITHIUM IRON PHOSPHATE BATTERY**

Nominal Voltage	25.6 V
Nominal Capacity	20 Ah
Capacity @ 25A	48 min
Energy	512 Wh
Resistance	$50~\text{m}\Omega$ @ $50\%$ SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)
DISCHARGE SPECIFICATIONS	
Maximum Continuous Discharge Current	30 A
Peak Discharge Current	60 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	170 A ±20 A (10 ±5 ms)
Recommended Low Voltage Disconnect	22 V
BMS Discharge Voltage Cut-Off	16 V (2.0 ±0.08 vpc) (20 ±6 ms)
Reconnect Voltage	20 V (2.5 ±0.05 vpc)
Short Circuit Protection	200-600 μs
TEMPERATURE SPECIFICATIONS	
Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	-4 to 113 °F (-20 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	176 °F (80 °C)
Reconnect Temperature	122 °F (50 °C)

Dimensions (L x W x H)	7.7 x 5.2 x 6.7" 195 x 131 x 171 mm
Weight	12 lbs (5.4 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-r
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>
CHARGE SPECIFICATIONS	
Recommended Charge Current	1 A - 10 A
Maximum Charge Current	30 A
Charge Current (0 to -10 °C)	≤0.1 C
Charge Current (-20 to -10 °C)	≤0.05 C
Recommended Charge Voltage	28.4 V - 29.2 V
BMS Charge Voltage Cut-Off	31.2 V (3.9 ±0.025 vpc) (1 ±0.3 s)
Reconnect Voltage	30.4 V (3.8 ±0.05 vpc)
Balancing Voltage	28.8 V (3.6 ±0.025 vpc)
<b>COMPLIANCE</b> SPECIFICATIONS	
Certifications	CE (battery) UL1642 & IEC62133 (cell
Shipping Classification	UN 3480, CLASS 9

#### **DIMENSIONAL SPECIFICATIONS**





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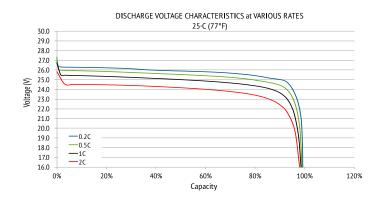


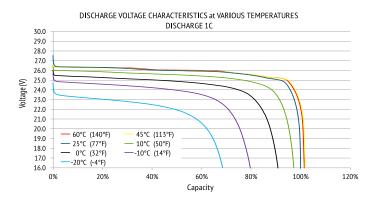
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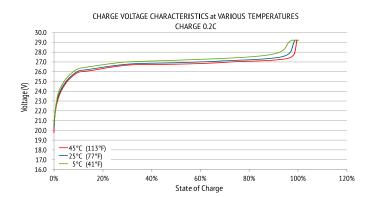


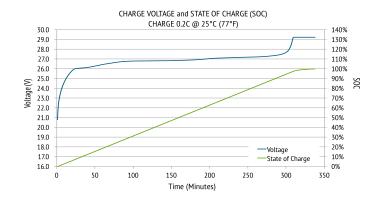
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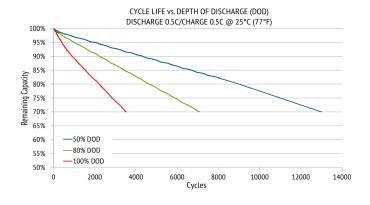
#### **PERFORMANCE CHARACTERISTICS**

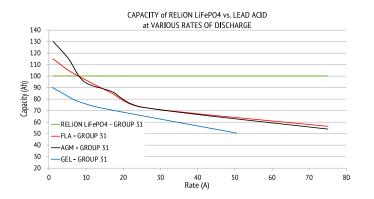




















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