

RB75



Group: 24

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	75 Ah
Capacity @ 25A	180 min
Energy	960 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

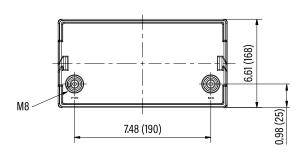
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	75 A
Peak Discharge Current	150 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	280 A ±50 A (9 ±4 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (140 ±60 ms)
Reconnect Voltage	9.2 V (2.3 ±0.1 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)
*Refer to charge currents below 32°F (0°C)	

DIMENSIONAL SPECIFICATIONS

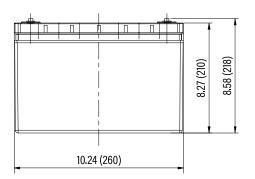


MECHANICAL SPECIFICATIONS 10.2 x 6.6 x 8.6" Dimensions (L x W x H) 260 x 168 x 218 mm Weight 24 lbs (10.7 kg) **Terminal Type** M8 **Terminal Torque** 80 - 100 in-lbs (9 - 11 N-m) Case Material ABS **Enclosure Protection** IP56 Cell Type - Chemistry Cylindrical - LiFePO₄

CHARGE SPECIFICATIONS Recommended Charge Current 3.7 A - 37.5 A Maximum Charge Current 75 A Charge Current 14 to 32 °F (-10 to 0 °C) ≤0.1 C Charge Current -4 to 14 °F (-20 to -10 °C) ≤0.05 C **Recommended Charge Voltage** 14.2 V - 14.6 V 15.6 V (3.9 ±0.025 vpc) BMS Charge Voltage Cut-Off (1.1 ±0.4 s) 15.2 V (3.8 ±0.05 vpc) **Reconnect Voltage** 14.4 V (3.6 ±0.025 vpc) **Balancing Voltage**

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



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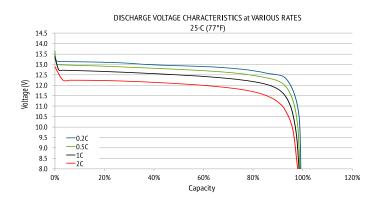
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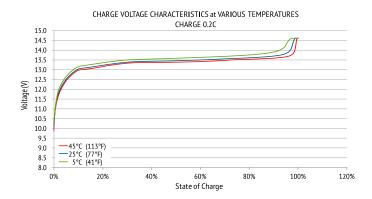


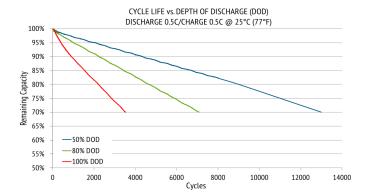


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PERFORMANCE CHARACTERISTICS

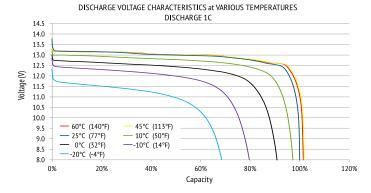






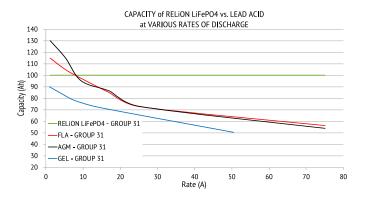
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CHARGE VOLTAGE and STATE OF CHARGE (SOC) CHARGE 0.2C @ 25°C (77°F) 15.0 140% 14.5 130% 120% 14.0 110% 13.5 13.0 100% 12.5 90% Voltage (V) SOC 12.0 80% 70% 11.5 11.0 60% 10.5 50% 10.0 40% 95 30% 9.0 20% -Voltage 8.5 10% -State of Charge 8.0 0% 50 100 150 200 250 300 350 0

Time (Minutes)





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