

RB10



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS		
Nominal Voltage		

Nominal Capacity	10 Ah
Capacity @ 25A	24 min
Energy	128 Wh
Resistance	90 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

12.8 V

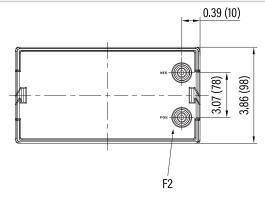
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	10 A
Peak Discharge Current	20 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	30 A (±5 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 V
Reconnect Voltage	10 V
Short Circuit Protection	200-500 µs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	176 °F (80 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

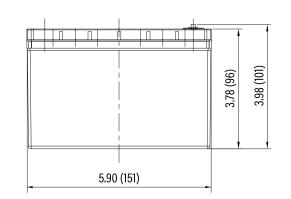
Dimensions (L x W x H)	5.9 x 3.9 x 4.0" 151 x 98 x 101 mm	
Weight	3.6 lbs (1.65 kg)	
Terminal Type	F2	
Case Material	ABS	
inclosure Protection	IP56	
Cell Type	Cylindrical	
Chemistry	LiFeP0 ₄	

CHARGE SPECIFICATIONS

Recommended Charge Current	5 A
Maximum Charge Current	10 A
PCM Charge Current Cut-Off	30 A (±5 A)
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

COMPLIANCE SPECIFICATIONS

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



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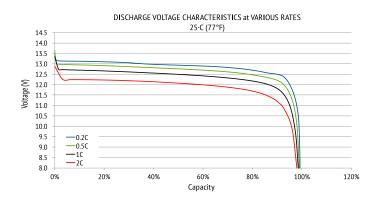
+1.803.547.7288 844.385.9840 9868 Harrisburg Road Fort Mill, SC 29707, US

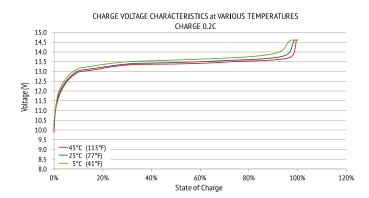


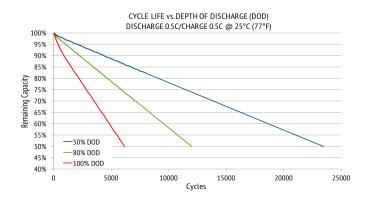


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PERFORMANCE CHARACTERISTICS

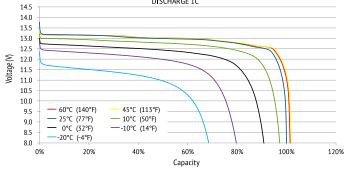




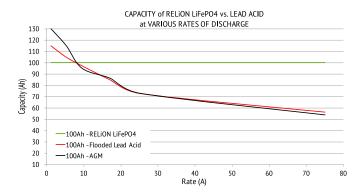




DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES DISCHARGE 1C



CHARGE VOLTAGE and STATE OF CHARGE (SOC) CHARGE 0.2C @ 25°C (77°F) 15.0 140% 130% 14.5 14.0 120% 13.5 110% 13.0 100% 12.5 90% SOC Voltage (V) 12.0 80% 11.5 70% 11.0 60% 105 50% 10.0 40% 9.5 30% 9.0 20% -Voltage 8.5 State of Charge 10% 8.0 0% 0 50 100 150 200 250 300 350 Time (Minutes)





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