

RB5



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATION	S
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Nominal Voltage	12.8 V
Nominal Capacity	5 Ah
Capacity @ 25A	12 min
Energy	64 Wh
Resistance	130 mΩ
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

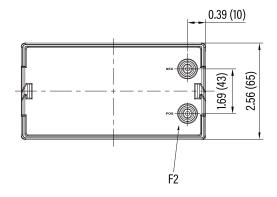
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	5 A
Peak Discharge Current	10 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



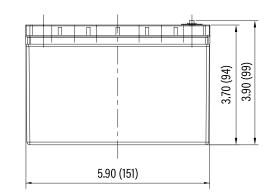
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	5.9 x 2.6 x 3.9" 151 x 65 x 99 mm
Weight	2.0 lbs (0.9 kg)
Terminal Type	F2
Case Material	ABS
Enclosure Protection	IP56
Cell Type	Cylindrical
Chemistry	LiFeP0₄

CHARGE SPECIFICATIONS

Recommended Charge Current	2.5 A
Maximum Charge Current	5 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

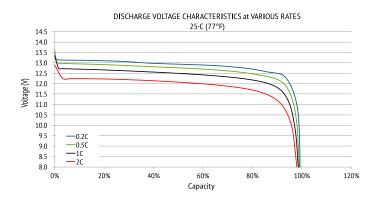


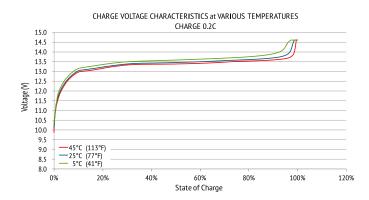


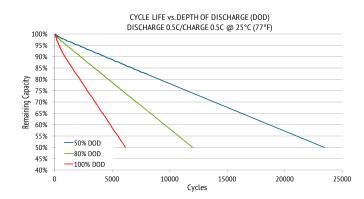


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PERFORMANCE CHARACTERISTICS









DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES DISCHARGE 1C 14.5 14.0 13.5 13.0 12.5 12.0 Voltage (V) 11.5 11.0 10.5 10.0 - 60°C (140°F) 45°C (113°F) 9.5 25°C (77°F) - 10°C (50°F)

60%

Capacity

80%

40%

RELION

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9.0

8.5

8.0

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0%

- 0°C (32°F)

-20°C (-4°F)

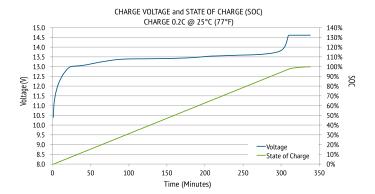
20%

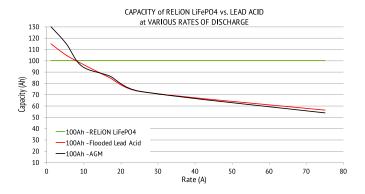
12.8V 5Ah

UN38.3 91 (E 🏯 🗷

100%

120%







RB5DS06.11.2017