

RB5



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	5 Ah
Capacity @ 25A	12 min
Energy	64 Wh
Resistance	≤130 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1

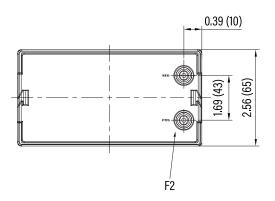
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	5 A
Peak Discharge Current	10 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	15 A ±3 A (10 ±5 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 \pm 0.08 vpc) (100 \pm 50 ms)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	200-500 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)

DIMENSIONAL SPECIFICATIONS



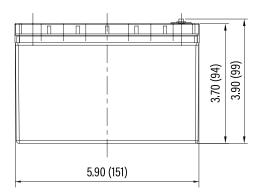
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	5.9 x 2.6 x 3.9" 151 x 65 x 99 mm
Weight	2.0 lbs (0.9 kg)
Terminal Type	F2
Case Material	ABS
Enclosure Protection	IP56
Cell Type	Cylindrical
Chemistry	LiFeP0 ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	0.25 A - 2.5 A
Maximum Charge Current	5 A
Charge Current (0 to -10 °C)	≤0.1 C
Charge Current (-20 to -10 °C)	≤0.05 C
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1.0 ±0.5 s)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)

COMPLIANCE SPECIFICATIONS

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



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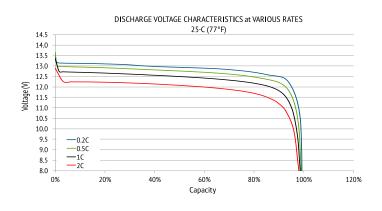
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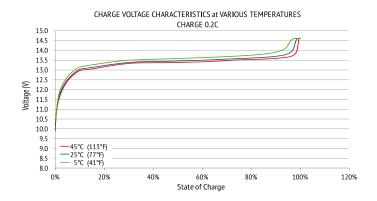


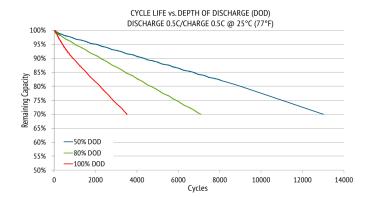


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PERFORMANCE CHARACTERISTICS







DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES DISCHARGE 1C 14.5 14.0 13.5 13.0 12.5 Voltage (V) 12.0 11.5 11.0 10.5 10.0 60°C (140°F) 45°C (113°F) 9.5 - 25°C (77°F) - 0°C (32°F) - 10°C (50°F) 9.0 -10°C (14°F) 8.5 -20°C (-4°F) 8.0 0% 20% 40% 60% 80% 100% 120% Capacity

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RE

Li³ON⁸

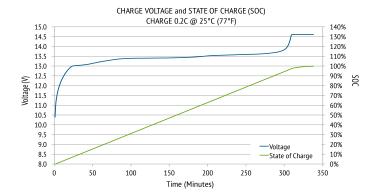
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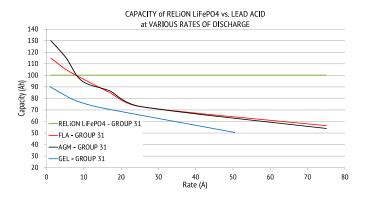
12.8V 5Ah

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UN38.3





UN38.3

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