

RB24V40



Group: 24

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	25.6 V
Nominal Capacity	40 Ah
Capacity @ 25A	96 min
Energy	1280 Wh
Resistance	≤40 mΩ @ 50% S0C
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

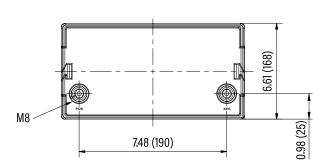
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	30 A
Peak Discharge Current	70 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	120 A ±15 A (9 ms)
Recommended Low Voltage Disconnect	22 V
BMS Discharge Voltage Cut-Off	16 V (2.0 ±0.08 vpc)
Reconnect Voltage	18.4 V (2.0 ±0.08 vpc)
Short Circuit Protection	200-600 µs

TEMPERATURE SPECIFICATIONS

-4 to 140 °F (-20 to 60 °C)
-4 to 113 °F (-20 to 45 °C)
23 to 95 °F (-5 to 35 °C)
167 °F (75 °C)
149 °F (65 °C)

DIMENSIONAL SPECIFICATIONS



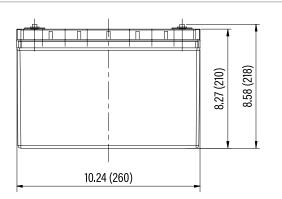
MECHANICAL SPECIFICATIONS	
Dimensions (L x W x H)	10.2 x 6.6 x 8.3" 260 x 168 x 210 mm
Weight	28.7 lbs (13 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO $_4$

CHARGE SPECIFICATIONS

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Recommended Charge Current	2 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	28.0 V - 29.2 V
BMS Charge Voltage Cut-Off	31.2 V (3.9 ±0.025 vpc)
Reconnect Voltage	30.4 V (3.8 ±0.05 vpc)
Balancing Voltage	28.8 V (3.6 vpc)

COMPLIANCE SPECIFICATIONS

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



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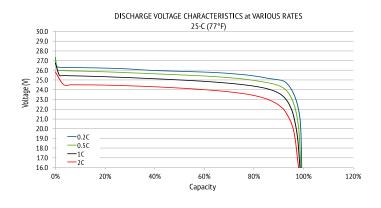
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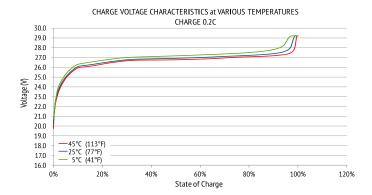


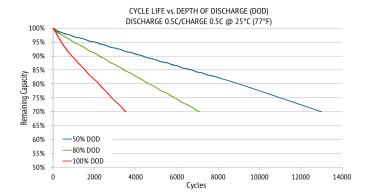


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PERFORMANCE CHARACTERISTICS









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DISCHARGE 1C 30.0 29.0 28.0 27.0 26.0 25.0 Voltage (V) 24.0 23.0 22.0 21.0 20.0 60°C (140°F) 45°C (113°F) 19.0 - 25°C (77°F) - 0°C (32°F) - 10°C (50°F) -10°C (14°F) 18.0 17.0 —-20°C (-4°F)

60%

Capacity

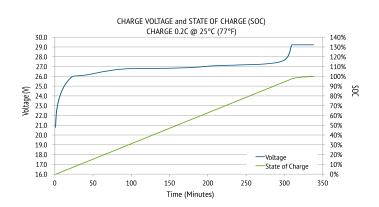
80%

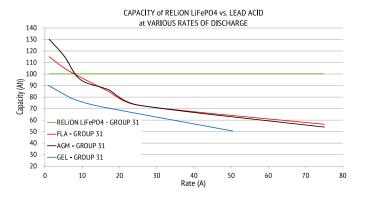
100%

120%

40%

DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES





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