



RB48V150

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2 V
Nominal Capacity	150 Ah
Capacity @ 25A	360 min
Energy	7680 Wh
Resistance	≤50 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

DISCHARGE SPECIFICATIONS

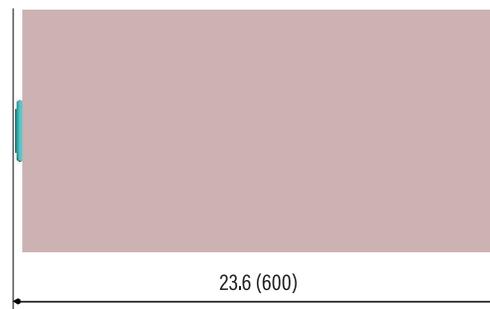
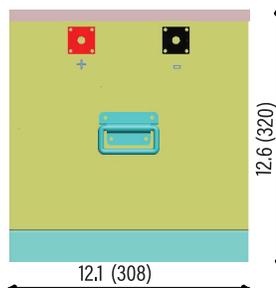
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	350 A (30 s)
BMS Discharge Current Cut-Off	500 A ±50 A (1000 ±500 ms)
Recommended Low Voltage Disconnect	44 V
BMS Discharge Voltage Cut-Off	36.8 V (2.3 ±0.05 vpc)
Reconnect Voltage	40 V (2.5 ±0.05 vpc)
Short Circuit Protection	200-600 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	14 to 95 °F (-10 to 35 °C)
BMS High Temperature Cut-Off	167 °F ±41 °F (75 °C ±5 °C)
Reconnect Temperature	122 °F (50 °C)

*Refer to charge currents below 32°F (0°C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	23.6 x 12.1 x 12.6" 600 x 308 x 320 mm
Weight	178.6 lbs (81 kg)
Terminal Type	M10
Terminal Torque	110 - 125 in-lbs (12.2 - 14 N-m)
Case Material	Steel Case
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	7.5 A - 50 A
Maximum Charge Current	100 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	56 V - 58.4 V
BMS Charge Voltage Cut-Off	61.6 V (3.85 ±0.05 vpc)
Reconnect Voltage	58.4 V (3.65 ±0.05 vpc)
Balancing Voltage	57.6 V (3.6 vpc)

COMPLIANCE SPECIFICATIONS

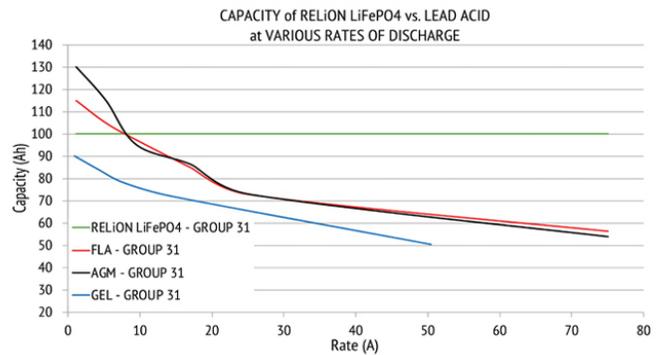
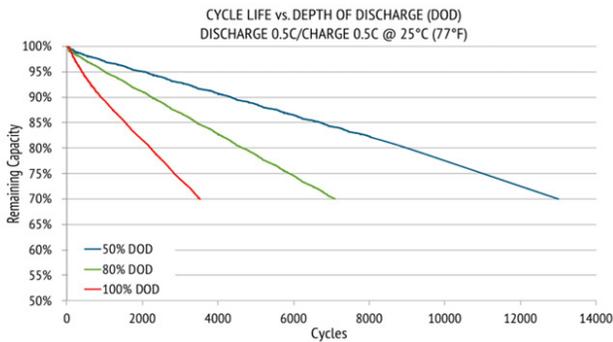
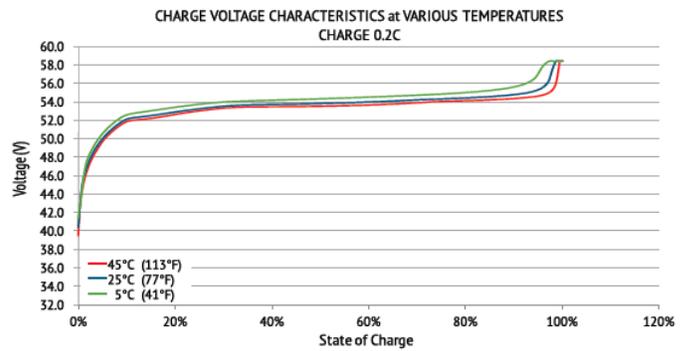
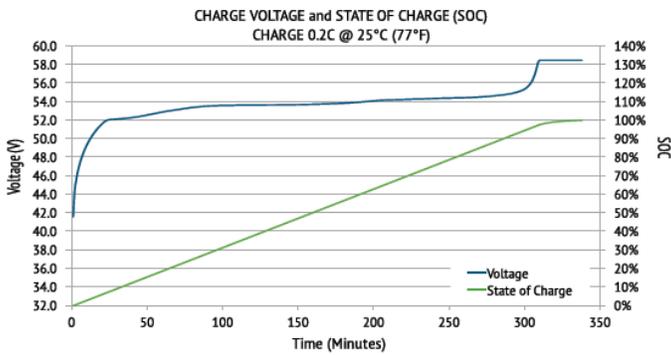
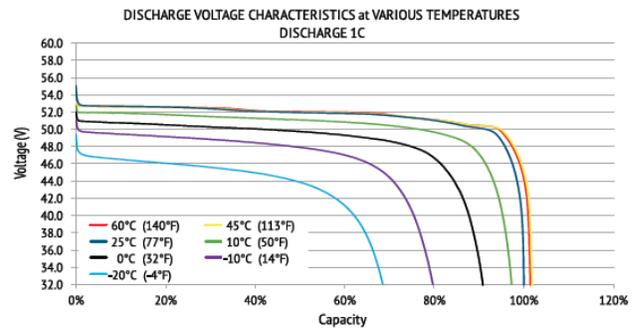
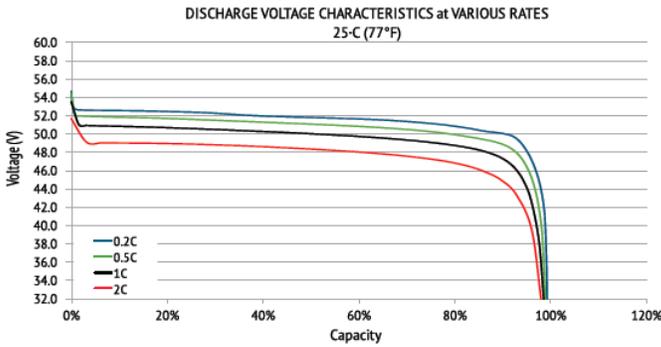
Certifications	CE (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9





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PERFORMANCE CHARACTERISTICS



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