



# RB48V100

Voltage: 51.2V | Capacity: 100 Ah | Energy: 5120 Wh

LITHIUM IRON PHOSPHATE BATTERY **LiFePO<sub>4</sub>**

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

## DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (4 s ±1 s)
BMS Discharge Current Cut-Off	300 A (5 s)
Recommended Low Voltage Disconnect	44 V
BMS Discharge Voltage Cut-Off	40 V (2.5 vpc)
Reconnect Voltage	40.5 V (2.53 vpc)
BMS SOC Disconnect	5%

## TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 131 °F (-20 to 55 °C)
Charge Temperature*	-4 to 131 °F (-20 to 55 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	145 °F (63 °C)
BMS Low Temperature Disconnect	-4 °F (-20 °C)
Reconnect Temperature	-0.4 °F (-18 °C)

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

## MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	32.8 x 11.2 x 10.0" 832.4 x 285 x 255 mm
Weight	136.7 lbs (62 kg)
Terminal Type	M8 x 1.25 x 12mm
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	Steel Case
Enclosure Protection	IP65
Cell Type - Chemistry	Cylindrical - LiFePO <sub>4</sub>

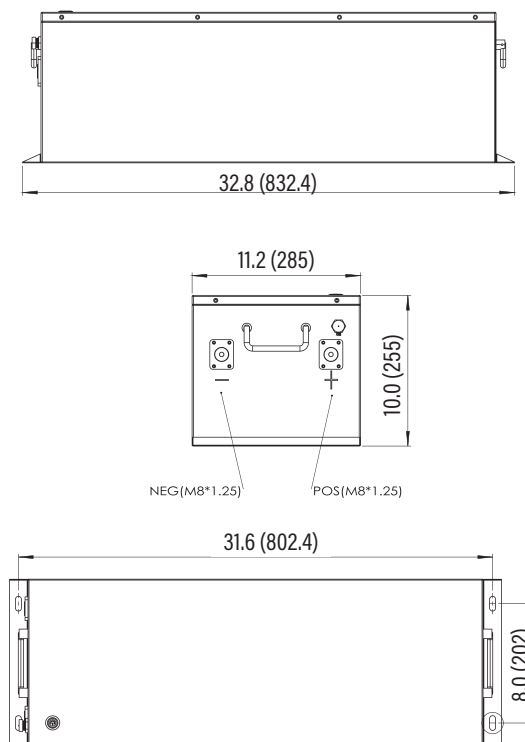
## CHARGE SPECIFICATIONS

Recommended Charge Current	≤50 A
Recommended Maximum Charge Current	100 A
BMS Charge Current Disconnect	200 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	56.0 V - 58.4 V
BMS Charge Voltage Disconnect	60.8 V (3.9 vpc)
Reconnect Voltage	60.3 V (3.87 vpc)

## COMPLIANCE SPECIFICATIONS

Certifications	UN38.3 & CE (battery) UL1642 (cells) (File# MH64523) IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

## DIMENSIONAL SPECIFICATIONS



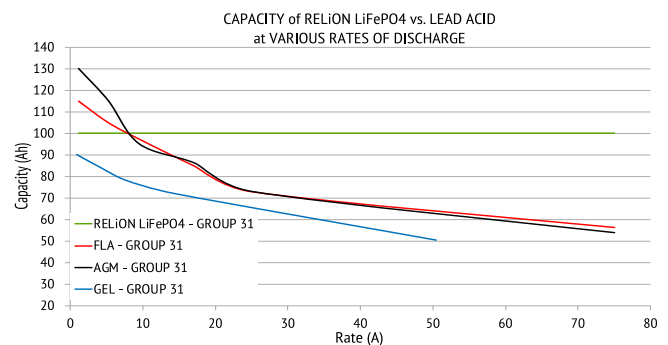
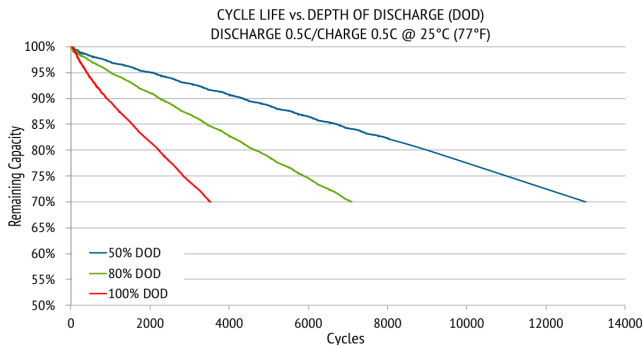
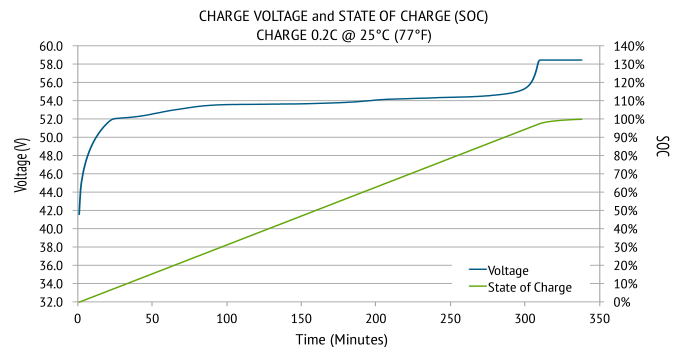
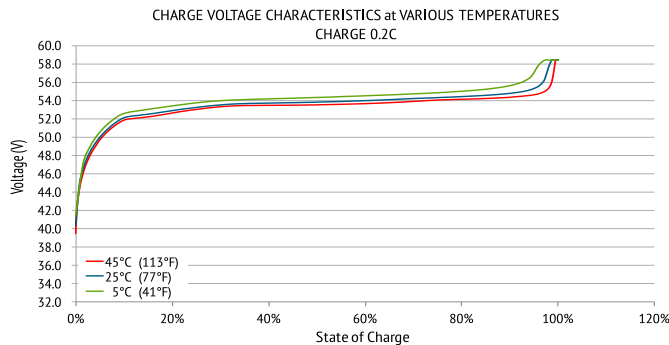
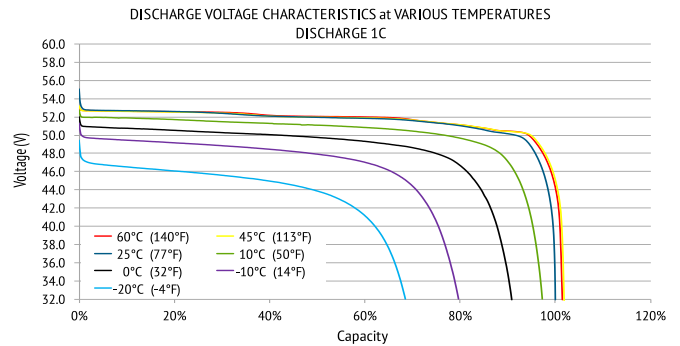
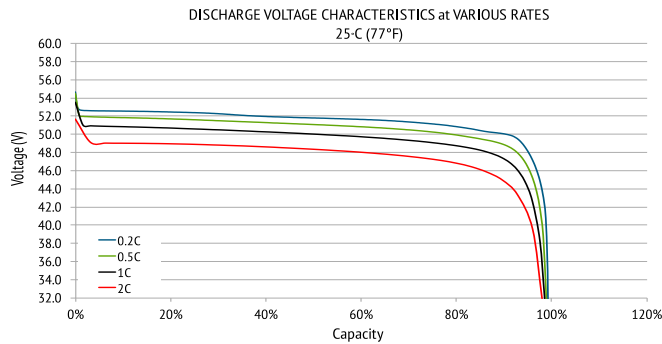


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## PERFORMANCE CHARACTERISTICS



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UN38.3

