

RB12V100AH-M

METAL-CASED LITHIUM IRON PHOSPHATE BATTERY

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	1280 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Parallel	4
Maximum Modules in Series	0

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	190 A (0.7 s)
BMS Discharge Current Cut-Off	110 A (10s)
Low Voltage Disconnect	10 V
BMS Discharge Voltage Cut-Off	10 V (2s)
Reconnect Voltage	12 V
Short Circuit Protection	780A @ 400μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	14 to 167 °F (-10 to 75 °C)
Charge Temperature*	29 to 149 °F (-2 to 65 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	158 °F (70 °C)

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

MECHANICAL

Dimensions (L x W x H)	11.02 x 7.08 x 7.48" 280 x 180 x 190 mm
Weight	~25 lbs (12 kg)
Terminal Type	M8
Terminal Torque	50 in-lbs (6 - 11 N-m)
Case Material	Steel
Enclosure Protection	Not Water Rated
Cell Type - Chemistry	Prismatic - LiFePO ₄

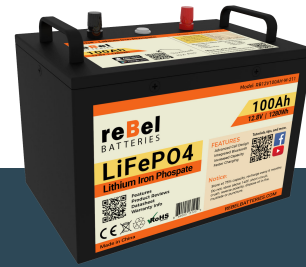
CHARGE SPECIFICATIONS

Recommended Charge Current	5 A - 75 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2 V - 14.6 V
Disconnect Voltage	14.6 V (3.65 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)
BMS Charge Voltage Cut-Off	14.6 V (3.65 ±0.025 vpc) (1.1 ±0.4 s)

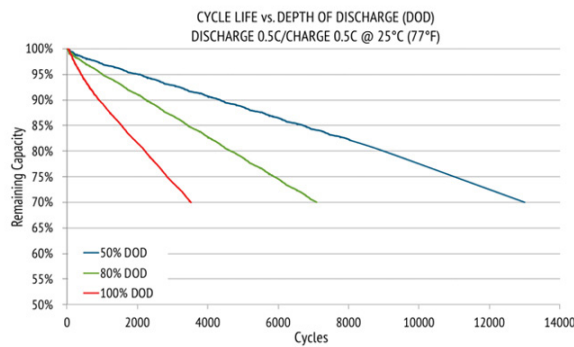
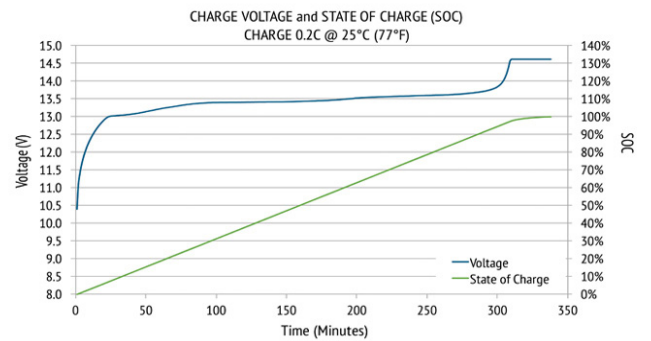
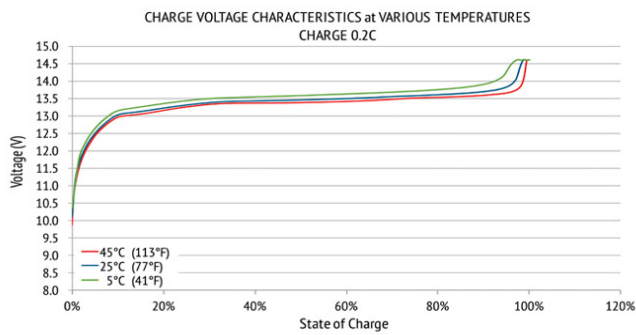
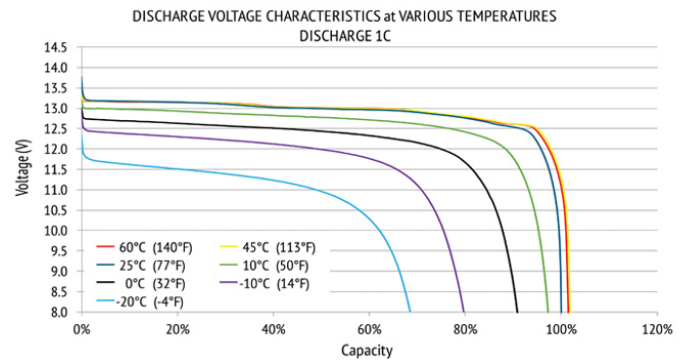
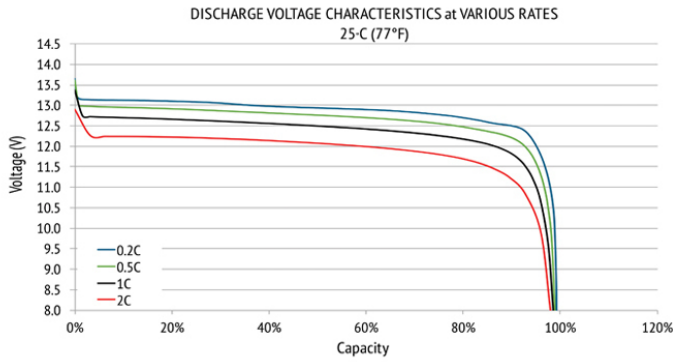
COMPLIANCE SPECIFICATIONS

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





PERFORMANCE CHARACTERISTICS



UN38.3

