

RB12V100AH



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)

Weight

Terminal Type

Case Material

Terminal Torque

Enclosure Protection

Cell Type - Chemistry

CHARGE SPECIFICATIONS Recommended Charge Current

Maximum Charge Current

Bulk / Absorb Voltage

Float Voltage

Group: 31

13 x 6.8 x 8.8"

~25 lbs (12 kg)

M8

ABS

IP54

5 A - 75 A

14.2 V - 14.6 V

100 A

13.5 V

329 x 172 x 223 mm

Prismatic - LiFePO₄

80 - 100 in-lbs (9 - 11 N-m)

LITHIUM IRON PHOSPHATE BATTERY

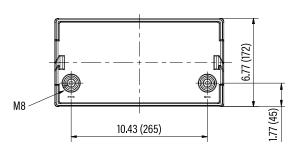
ELECTRICAL SPECIFICATIONS

12.8 V
100 Ah
240 min
1280 Wh
≤30 mΩ @ 50% SOC
99%
<2% per Month
16
4
100 A
190 A (0.7 s)
110 A (10s)
10.5 V
10 V (2s)
12 V
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)	

DIMENSIONAL SPECIFICATIONS

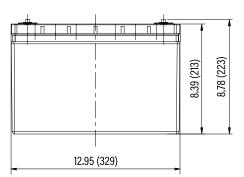


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IS 14 to 167 °F (-10 to 75 °C)

COMPLIANCE SPECIFICATIONS
Certifications
Shipping Classification

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



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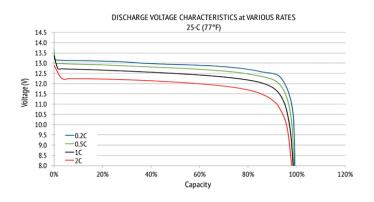


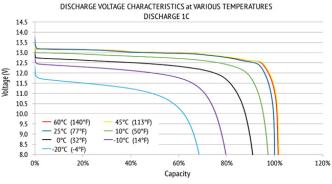


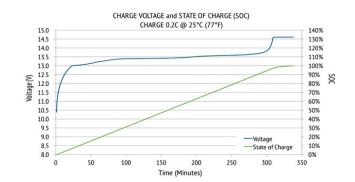


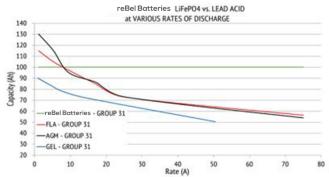


PERFORMANCE CHARACTERISTICS











CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES CHARGE 0.2C 15.0 14.5 14.0 13.5 13.0 12.5 12.0 Voltage (V) 11.5 11.0 10.5 10.0 9.5 9.0 -45°C (113°F) -25°C (77°F) - 5°C (41°F) 8.5 8.0 0% 60% 80% 100% 120% 20% 40% State of Charge

CYCLE LIFE vs. DEPTH OF DISCHARGE (DOD) DISCHARGE 0.5C/CHARGE 0.5C @ 25°C (77°F) 100% 95% 90% 85% Remaining Capacity 80% 75% 70% 65% 60% 55% -100% DOD 50% 2000 12000 14000 0 4000 6000 8000 10000 Cycles



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