

# RB100-HP



Group: 31

Cylindrical - LiFePO<sub>4</sub>

### LITHIUM IRON PHOSPHATE BATTERY

#### **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 Series	1 (Single Use)

#### **DISCHARGE SPECIFICATIONS**

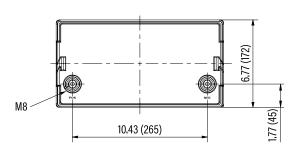
Maximum Continuous Discharge Current	100 A
Peak Discharge Current	800 A (2 s)
BMS Discharge Current Cut-Off	1000 A ±100 A (2.2 ±1 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	9.2 V (2.3 ±0.08 vpc) (4.2 ±0.5 s)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	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	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	176 °F (80 °C)
Reconnect Temperature	122 °F (50 °C)

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

#### **DIMENSIONAL SPECIFICATIONS**



<b>MECHANICAL</b> SPECIFICATIO	INS
Dimensions (L x W x H)	13.0 x 6.8 x 8.8" 329 x 172 x 223 mm
Weight	29.8 lbs (13.5 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56

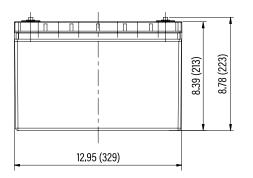
#### **CHARGE** SPECIFICATIONS

Cell Type - Chemistry

Recommended Charge Current	5 A - 50 A
Maximum Charge Current	100 A
Charge Current 14 to 32 $^{\rm o}F~$ (-10 to 0 $^{\rm o}C)$	≤0.1 C
Charge Current -4 to 14 $^{\rm o}F$ (-20 to -10 $^{\rm o}C)$	≤0.05 C
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.4 V (3.85 ±0.025 vpc) (1 ±0.2 s)
Reconnect Voltage	14.6 V (3.65 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

#### **COMPLIANCE** SPECIFICATIONS

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



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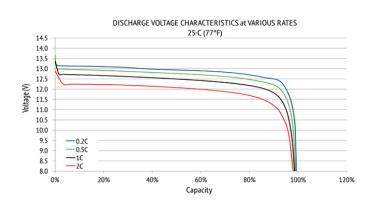
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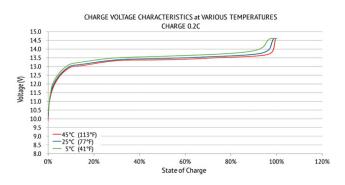


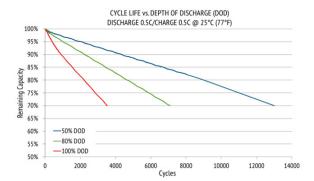


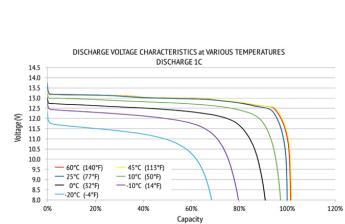
## **RB100-HP**

#### **PERFORMANCE CHARACTERISTICS**









12.8V 100Ah

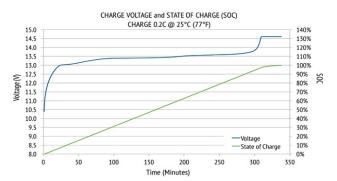
2Y LiFePO

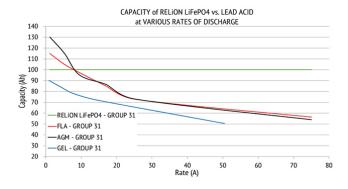
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