

## **RB80**



**MECHANICAL SPECIFICATIONS** 

Dimensions (L x W x H)

Weight

**Terminal Type** 

Terminal Torque Case Material

**Enclosure Protection** 

Cell Type - Chemistry

**CHARGE SPECIFICATIONS** 

Group: 27

12 x 6.6 x 8.6"

25 lbs (11.3 kg)

M8

ABS

IP56

305 x 168 x 219 mm

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

Cylindrical - LiFePO<sub>4</sub>

### LITHIUM IRON PHOSPHATE BATTERY

### **ELECTRICAL SPECIFICATIONS**

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Nominal Voltage	12.8 V
Nominal Capacity	80 Ah
Capacity @ 25A	192 min
Energy	1024 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	4

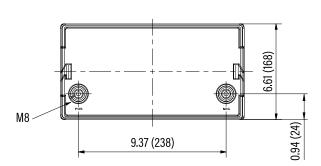
### **DISCHARGE SPECIFICATIONS**

Maximum Continuous Discharge Current	80 A
Peak Discharge Current	160 A (7.5 s ±2.5 s)
BMS Discharge Current Cut-Off	280 A ±50 A (9 ±4 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.08 vpc) (140 ±60 ms)
Reconnect Voltage	9.2 V (2.3 ±0.1 vpc)
Short Circuit Protection	200-600 µs

### **TEMPERATURE** SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 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)

### **DIMENSIONAL SPECIFICATIONS**



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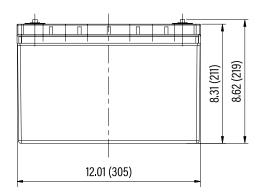


# Recommended Charge Current40 AMaximum Charge Current80 A

Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.6 V (3.9 ±0.025 vpc) (1.1 ±0.4 s)
Reconnect Voltage	15.2 V (3.8 ±0.05 vpc)
Balancing Voltage	14.4 V (3.6 ±0.025 vpc)

### **COMPLIANCE** SPECIFICATIONS

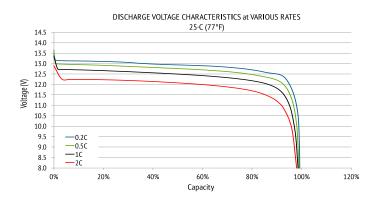
Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9

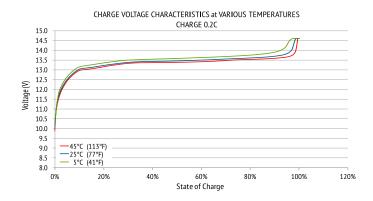


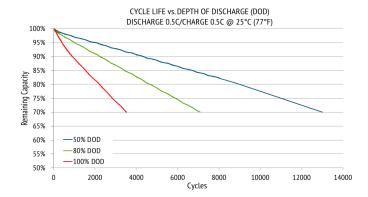


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### **PERFORMANCE CHARACTERISTICS**

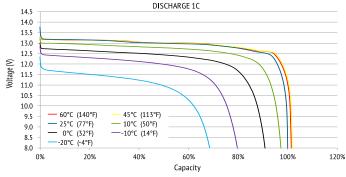




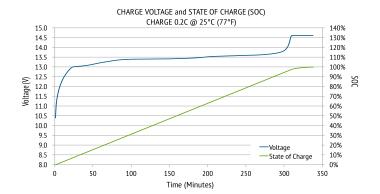


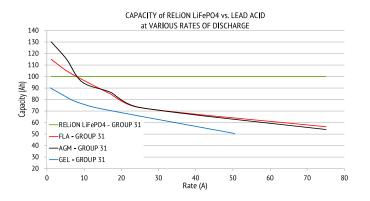


### Group: 27



DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES







RB80DS07.13.2018

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**F**L

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**UN38,3** 

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