

RB100



Coastal Climate Control, Inc.

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Group 31

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
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	6

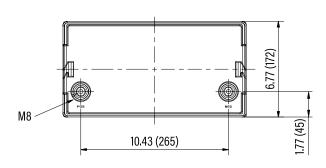
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100 A
Peak Discharge Current	200 A (7.5 s ±2.5 s)
PCM Discharge Current Cut-Off	280 A (±50 A)
Recommended Low Voltage Disconnect	11 V
PCM Discharge Voltage Cut-Off	8 V
Reconnect Voltage	9.2 V
Short Circuit Protection	200-600 µs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 131 °F (0 to 55 °C)
Storage Temperature	-4 to 140 °F (-20 to 60 °C)
PCM High Temperature Cut-Off	176 °F (80 °C)

DIMENSIONAL SPECIFICATIONS



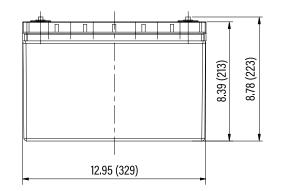
MECHANICAL SPECIFICATIONS 13.0 x 6.8 x 8.8" Dimensions (L x W x H) 329 x 172 x 223 mm Weight 30 lbs (13.5 kg) **Terminal Type** M8 **Terminal Torque** 80 - 100 in-lbs (9 - 11 N-m) Case Material ABS **Enclosure Protection** IP56 Cell Type - Chemistry Cylindrical - LiFePO₄

CHARGE SPECIFICATIONS

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Recommended Charge Current	50 A
Maximum Charge Current	100 A
PCM Charge Current Cut-Off	280 A (±50 A)
Recommended Charge Voltage	14.2 V - 14.6 V
PCM Charge Voltage Cut-Off	15.6 V
Reconnect Voltage	15.2 V
Balancing Voltage	14.4 V

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC2133 (cells)
Shipping Classification	UN 3480, CLASS 9



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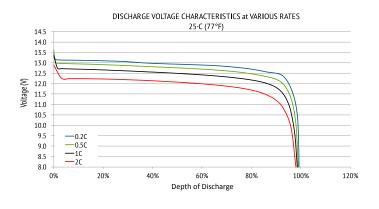


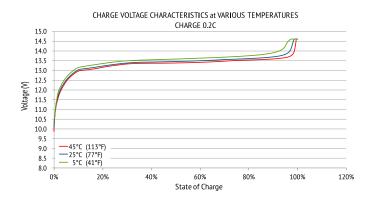
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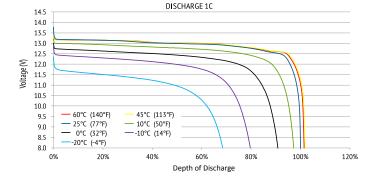


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PERFORMANCE CHARACTERISTICS



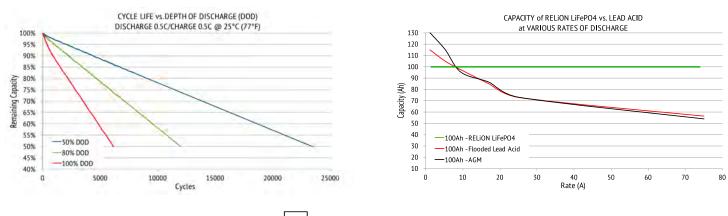




DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES

CHARGE VOLTAGE and STATE OF CHARGE (SOC) CHARGE 0.2C @ 25°C (77°F) 15.0 140% 130% 14.5 14.0 120% 13.5 110% 13.0 100% 12.5 90% Voltage (V) SOC 12.0 80% 11.5 70% 11.0 60% 105 50% 10.0 40% 9.5 30% 9.0 20% -Voltage 8.5 -State of Charge 10% 8.0 0% 0 50 100 150 200 250 300 350

Time (Minutes)





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