

RB170



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	170 Ah
Capacity @ 25A	408 min
Energy	2176 Wh
Resistance	≤55 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

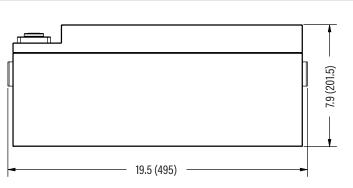
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (≤5 s)
BMS Discharge Current Cut-Off	480 A (±50 A) (6 ±3 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.1 vpc) (100 ±50 ms)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	400-800 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	149 °F (65 °C)
Reconnect Temperature	122 °F (50 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

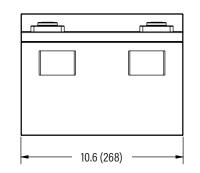
Dimensions (L x W x H)	19.5 x 10.6 x 7.9" 495 x 268 x 201.5 mm
Weight	66.1 lbs (30 kg)
Terminal Type	M8 X 1.25
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	Steel Case
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO₄

CHARGE SPECIFICATIONS

Recommended Charge Current	8.5 A - 50 A
Maximum Charge Current	100 A
Charge Current (0 to -10 °C)	≤0.1 C
Charge Current (-20 to -10 °C)	≤0.05 C
Recommended Charge Voltage	14.2 V - 14.6 V
BMS Charge Voltage Cut-Off	15.2 V (3.8 ±0.05 vpc) (1 ±0.5 s)
Reconnect Voltage	14.4 V (3.6 ±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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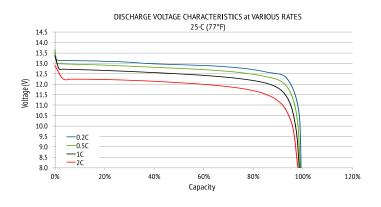
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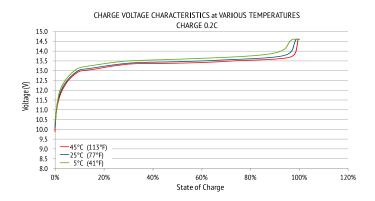


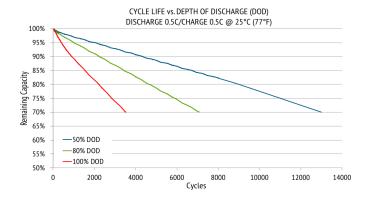


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PERFORMANCE CHARACTERISTICS

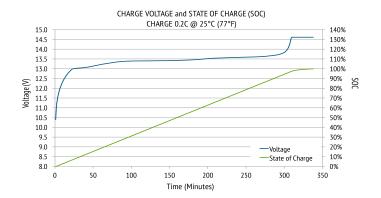


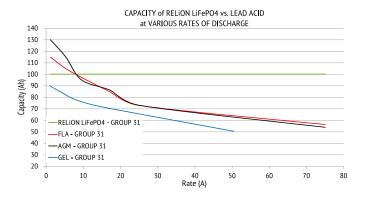




DISCHARGE 1C 14.5 14.0 13.5 13.0 12.5 Voltage (V) 12.0 11.5 11.0 10.5 10.0 60°C (140°F) 45°C (113°F) 9.5 - 25°C (77°F) - 10°C (50°F) 9.0 _ 0°C (32°F) -10°C (14°F) 8.5 -20°C (-4°F) 8.0 0% 20% 40% 60% 80% 100% 120% Capacity

DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES





CE

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