

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

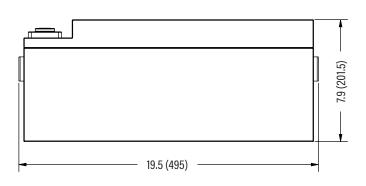
Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (≤5 s)
BMS Discharge Current Cut-Off	480 A (±50 A) (6 ±3 ms)
Recommended Low Voltage Disconnect	11 V
BMS Discharge Voltage Cut-Off	8 V (2.0 ±0.1 vpc) (100 ±50 ms)
Reconnect Voltage	10 V (2.5 ±0.1 vpc)
Short Circuit Protection	400-800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

*Refer to charge currents below 32°F (0°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

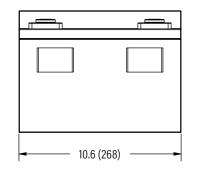
CHARGE SPECIFICATIONS

MEQUANION ODEOLEIOATIONO

Recommended Charge Current	8.5 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	15.2 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

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



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RB170

15.0

14.5 14.0

13.5

13.0

12.5

11.0

10.5

10.0

9.5

9.0

8.5

8.0

0%

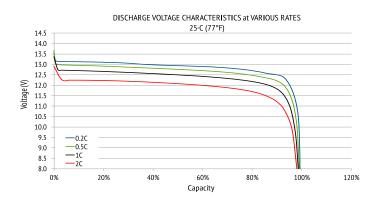
45°C (113°F) 25°C (77°F) 5°C (41°F)

20%

40%

Voltage (V) 12.0 11.5

PERFORMANCE CHARACTERISTICS



CHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES

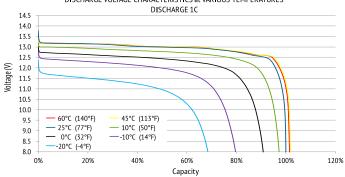
CHARGE 0.2C

60%

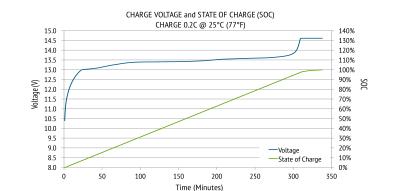
State of Charge

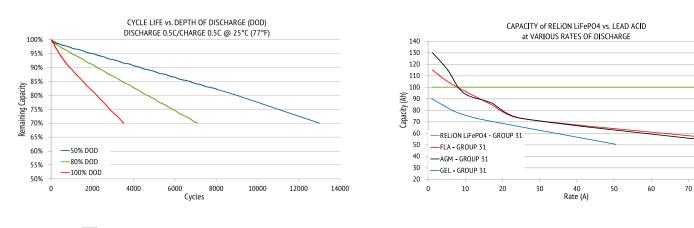
80%

100%



DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS TEMPERATURES





120%



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CE



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