



RB48V100

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2 V
Nominal Capacity	100 Ah
Capacity @ 25A	240 min
Energy	5120 Wh
Resistance	50 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	1 (Single Use)

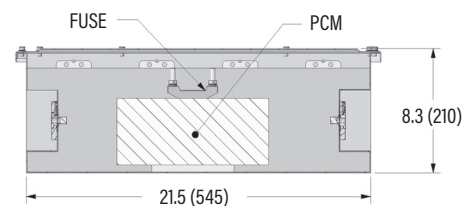
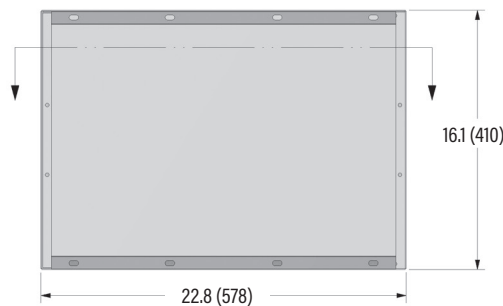
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (4 s ±1 s)
BMS Discharge Current Cut-Off	450 A ±80 A (100 ±20 ms)
Recommended Low Voltage Disconnect	44 V
BMS Discharge Voltage Cut-Off	32 V (2.0 ±0.08 vpc) (100 ±20 ms)
Reconnect Voltage	40 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	140 °F (60 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	22.8 x 16.1 x 8.3" 578 x 410 x 210 mm
Weight	159 lbs (72 kg)
Terminal Type	M10
Terminal Torque	110 - 125 in-lbs (12.2 - 14 N-m)
Case Material	Steel Case
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	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	56.8 V - 58.4 V
BMS Charge Voltage Cut-Off	60.8 V (3.8 ±0.025 vpc) (1.0 ±0.3 s)
Reconnect Voltage	57.6 V (3.6 ±0.05 vpc)
Balancing Voltage	57.6 V (3.6 ±0.025 vpc)

COMPLIANCE SPECIFICATIONS

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





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PERFORMANCE CHARACTERISTICS

