



RB48V200

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V
Nominal Capacity	200Ah
Capacity @25A	480 min
Energy	10.24kWh
Resistance	50 mΩ@50% SOC
Efficiency	99%
Self Discharge	<3%per Month
Maximum Modules in Series	1(Single Use)

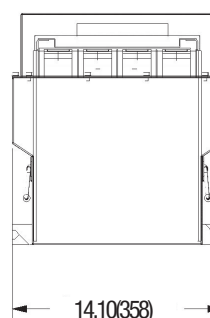
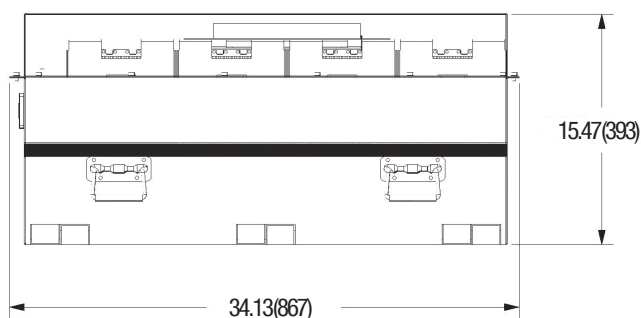
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	200 A
Peak Discharge Current	250 A (4 s ±1s)
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 - Discharge	176°F (80 °C)
Reconnect Temperature	140°F (60 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	34.1x 14.1x 15.5" 867 x 358 x 393 mm
Weight	302 lbs (137kg)
Terminal Type	M10
Terminal Torque	110- 125in-lbs (12.2 - 14 N-m)
Case Material	Steel Case
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	10A - 100 A
Maximum Charge Current	200 A
Charge Current (0 to -10°C)	≤0.1C
Charge Current (-20 to -10°C)	≤0.05 C
Recommended Charge Voltage	56.0 V - 58.4 V
BMS Charge Voltage Cut-Off	60.8 V (3.8 ±0.025 vpc) (1.0 ±0.3 s)
Reconnect Voltage	57.6V (3.6 ±0.05 vpc)
Balancing Voltage	57.6V (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

