



RB12V300AH

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8 V
Nominal Capacity	300 Ah
Capacity @ 25A	180 min
Energy	3840 Wh
Efficiency	99%
Self Discharge	<2% per Month
Maximum Modules in Parallel	4
Maximum Modules in Series	4

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	150 A
Peak Discharge Current	160 A (10 s)
BMS Hardware Current Cut-Off	>670 A (320ms)
Low Voltage Disconnect	10 V
BMS Discharge Voltage Cut-Off	10 V (2s)
Reconnect Voltage	12 V
Short Circuit Protection	1110A @ 400us

TEMPERATURE SPECIFICATIONS

Discharge Temperature	14 to 167 °F (-10 to 75 °C)
Charge Temperature*	29 to 149 °F (-2 to 65 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off	167 °F (75 °C)
Reconnect Temperature	158 °F (70 °C)

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

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	20.55 x 9.37 x 8.54" 522 x 238 x 217 mm
Weight	60 lbs (27.2 kg)
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP54
Cell Type - Chemistry	Prismatic - LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	5 A - 100 A
Maximum Charge Current	150 A
Recommended Charge Voltage	14.2 V - 14.6 V
Reconnect Voltage	13.5 V (3.8 ± 0.05 vpc)
Balancing Voltage	13.6 V (3.4 ± 0.025 vpc)
BMS Charge Voltage Cut-Off	14.6 V (3.65 ± 0.025 vpc)

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9





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PERFORMANCE CHARACTERISTICS

