

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 25A	240 min
Energy	1280 Wh
Resistance	≤30 mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% per Month
Maximum Modules in Series	6

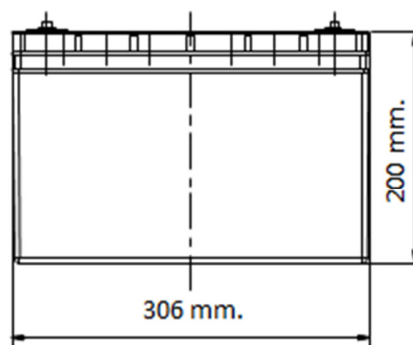
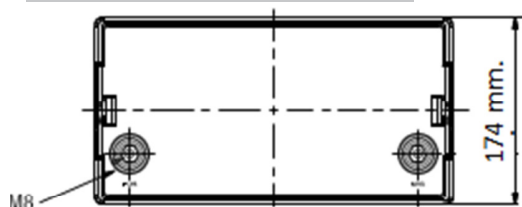
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100A
Peak Discharge Current	200 A (7.5 s ± 2.5 s)
BMS Discharge Current Cut-Of f	201 A ± 50 A (9 ± 4 ms)
Recommended Low Voltage Disconnect	11V
BMS Discharge Voltage Cut-Of f	8 V (2.0 ± 0.08 vpc) (140 ± 60 ms)
Reconnect Voltage	9.2V (2.3 ± 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-Of f	176 °F (80 °C)
Reconnect Temperature	122 °F (50 °C)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	306 x 174 x 200 mm
Weight	17 kg
Terminal Type	M8
Terminal Torque	80 - 100 in-lbs (9 - 11 N-m)
Case Material	ABS
Enclosure Protection	IP56
Cell Type - Chemistry	Cylindrical - LiFePO ₄

CHARGE SPECIFICATIONS

Recommended Charge Current	50 A
Maximum Charge Current	100 A
Recommended Charge Voltage	14.2V - 14.6V
BMS Charge Voltage Cut-Of f	15.6V (3.9 ± 0.025 vpc) (1.1 ± 0.4 s)
Reconnect Voltage	15.2V (3.8 ± 0.05 vpc)
Balancing Voltage	14.4V (3.6 ± 0.025 vpc)

COMPLIANCE SPECIFICATIONS

Certifications

Shipping Classification	UN 3480, CLASS 9
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PERFORMANCE CHARACTERISTICS

