


M-12300

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	300Ah
Capacity @ 20 A	900min
Energy	3840Wh
Resistance	≤ 30 m Ω @ 50% SOC
Efficiency	99%
Self Discharge	<3.5% per Month
Maximum Modules in Series Or Parallel	6

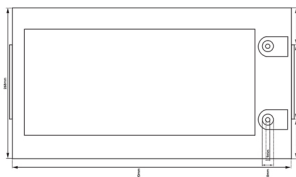
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100A
Peak Discharge Current	260 A (≤ 5 s)
BMS Discharge Current Cut-Off	300A±50A(2.2 ± 1 ms)
Recommended Low Voltage Disconnect	8V
BMS Discharge Voltage Cut-Off	8 V (2.0 ± 0.08 vpc) (100 ± 50 ms)
Reconnect Voltage	10V (2.5 ± 0.1 vpc)
Short Circuit Protection	200-400 μs

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-4 to 140 °F (-20 to 60 °C)
Charge Temperature	32 to 113 °F (0 to 45 °C)
Storage Temperature	23 to 95 °F (-5 to 35 °C)
BMS High Temperature Cut-Off (discharge)	149 °F (65 °C)(Customized)
Reconnect Temperature	122 °F (50 °C)(Customized)
Low Temperature Cut-Off (Charge)	32 °F (0 °C)(Customized)
High Temperature Cut-Off (Charge)	129.2 °F (54 °C)(Customized)

DIMENSIONAL SPECIFICATIONS



MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	520*268*220 mm
Weight	28KG
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP54
Cell Type	Prismatic
Chemistry	LiFePO4
Configuration	4S2P

CHARGE SPECIFICATIONS

Recommended Charge Current	50A
Maximum Charge Current	100A
Recommended Charge Voltage	14.6V
BMS Charge Voltage Cut-Off	14.6V(3.65±0.1V)
Reconnect Voltage	14.2V(3.55±0.1V)
Balancing Voltage	14.0V(3.5 ± 0.025 vpc)
Balancing Current	30 ± 5 mA

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery) UN38.3 (battery) UL1973 & IEC62133 (cells)
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Shipping Classification	UN 3480, CLASS 9
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