



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	120Ah
Capacity @ 20A	360min
Energy	1536Wh
Resistance	≤30mΩ @ 50% SOC
Efficiency	99%
Self Discharge	≤3.5% Per Month
Maximum Modules in Series or Parallel	4

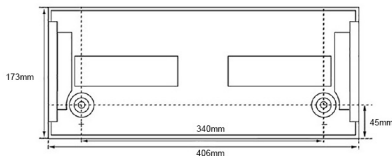
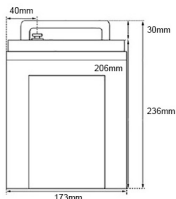
DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100A
Peak Discharge Current	260A≤5s
BMS Discharge Current Cut-off	300A±50A [2.2±1ms]
Recommend Low Voltage Disconnect	8.8V
BMS Discharge Voltage Cut-off	8.8V[2.2±0.08 vpc] [100±50ms]
Reconnect Voltage	10V[2.5±0.1vpc]
Short Circuit Protection	200-400μs

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*W*H]	406*173*236mm
Weight	14.5KG
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP55
Cell Type	Prismatic
Chemistry	LiFePo4
Configuration	4S1P

CHARGE SPECIFICATIONS

Remomend Charge Current	5A- 50A
Maximum Charge Current	100A
Recommend Charge Voltage	14.2-14.6V
BMS Charge Voltage Cut-off	15.0V[3.75±0.1V]
Reconnect Voltage	14.6V[3.65±0.1V]
Balancing Voltage	14.0V[3.5±0.025vpc]
Balancing Current	35±5mA

COMPLIANCE SPECIFICATIONS

Certifications CE[Battery], UN38.3[Battery]
IEC62133[cell]

Shipping Classification UN3480, CLASS9

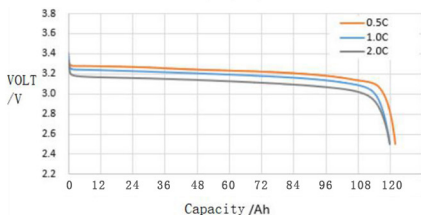




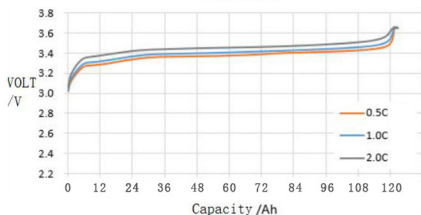
PERFORMANCE SPECIFICATIONS

Charge/Discharge Capacity At Different Rates for cell [Room Temperature]

Discharge Capacity

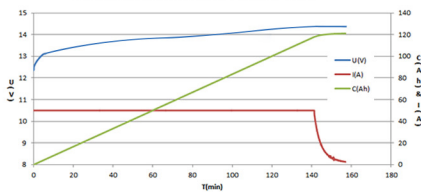


Charge Capacity

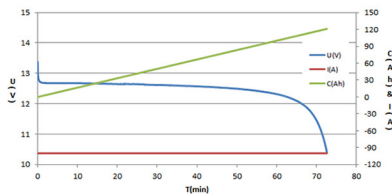


Charge/Discharge Capacity At Different Rates for Battery Pack [Room Temperature]

50A Charge Voltage & Current & Capacity Curve



100A Discharge Voltage & Current & Capacity Curve



PRODUCT DISPLAY



UN38.3 CE MSDS

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