



LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 20A	300 min
Energy	1280Wh
Resistance	≤30mΩ @ 50% SOC
Efficiency	99%
Self-Discharge	≤3.5% Per Month
Maximum Modules In Series Or Parallel	4

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	325x175x215mm
Weight	13Kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP55
Cell Type	Cylindrical
Chemistry	LiFePo4
Configuration	4S17P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	50A
Peak Discharge Current	120A≤5s
BMS Discharge Current Cut-Off	140A±20A (2.2±1ms)
Recommended Low Voltage Disconnect	8.8V
BMS Discharge Voltage Cut-Off	8.8V(2.2±0.08vpc) (100±50ms)
Reconnect Voltage	10V(2.5±0.1vpc)
Short Circuit Protection	200-400μs

CHARGE SPECIFICATIONS

Recommended Charge Current	5A – 20A
Maximum Charge Current	25A
Recommended 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	14V(3.5±0.025vpc)
Balancing Current	35±5mA

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20 to 60°C
Charge Temperature	0 to 45°C
Storage Temperature	-5 to 35°C
BMS High Temp Discharge Cut-Off	65°C
Reconnect Temperature	50°C
Low Temperature Charge Cut-Off	0°C
High Temperature Charge Cut-Off	54°C

COMPLIANCE CERTIFICATIONS

CE (Battery)
UN38.3 (Battery)
IEC62133 (Cell)

Shipping UN3480, CLASS9

DIMENSION SPECIFICATIONS

