GLOBAL POWER

Model GPS 12100B

12.8V 100Ah

LITHIUM IRON PHOSPHATE BATTERY

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Capacity @ 20A	5 Hours
Energy	1280Wh
Resistance	<20mΩ @ 50% SOC
Efficiency	99%
Self Discharge	<3% Per Month
Maximum Modules in Series and Parallel	4 series / 4 Parallels

MECHANICAL SPECIFICATIONS

Dimensions[L*W*H]	13*7.1*9.5in
Weight	32.6lbs
Terminal Type	M8 screw
Case Material	ABS
Enclosure Protection	IP65
Cell Type	Cylindrical
Chemistry	LiFePo4
Configuration	4S1P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current	100A
Peak Discharge Current	200A<3s
BMS Discharge Current Cut-off	300A±20A [90±10ms]
Recommend Low Voltage Disconnect	10V
BMS Discharge Voltage Cut-off	10V[2.2±0.08 vpc] [100±50ms]
Reconnect Voltage	10V[3.0±0.1vpc]
Short Circuit Protection	200-350s

CHARGE SPECIFICATIONS

Remommend Charge Current	10A-30A
Maximum Charge Current	100A
Recommend Charge Voltage	13.8V-14.4V
BMS Charge Voltage Cut-off	14.6V[3.65±0.1V]
Reconnect Voltage	14.6V[3.65±0.1V]

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]
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]

COMPLIANCE SPECIFICATIONS

Commnunication	NO
Certifications	CE,ROHS,MSDS,UN38.3
Shipping Classifiction	UN3480,CLASS9

BATTERY IMAGE

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