

LiFePO4 BATTERY

5.0KW 5.12KWH PHOTOVOLTAIC
ENERGY STORAGE SYSTEM



Safe
Cobalt-Free LiFePO4, Battery is safe, lasts and runs longer. High Energy density and comprehensive protection.



Reliable
High current smart BMS, high efficiency discharge power, natural cooling, working temperature range from -20°C to 60°C.



Flexible
Fast charging. Modular design, easily install.



Eco-Friendly
Eco-friendly materials, non-toxic and non-polluting.



Smart
Automatic networking and IP addressing, easy maintenance. Smart APP remote mo-nitoring and upgrading.



BATTERY PARAMETERS	
Cell type	LFP 100Ah
Battery Pack Configuration	1P16S/5.12KWH
Battery voltage range	43.2~57.6V
Continuous discharge current	120A
Maximum peak discharge current	132A/10S
Standard charging current	60A
Fast charging current	100A
Cycles	6000 times (25+2°C , 0.5C discharge)
Operating temperature	Charge: 0~50°C / Discharge:-20°C~ 60°C
AC PARAMETERS	
AC Input Voltage	176~270 VAC
Frequency	50/60HZ Automatic detection
AC Charge Rated Power	3.5KW
AC Charge Max Power	5KW
AC output Voltage	230VAC +/-5%
AC output Rated Power	5.0KVA/5.0KW
Max Total Harmonic Distortion	<3%
Max efficiency	98.0%
PV PARAMETERS	
Max Input Voltage	500VDC
Max PhotoVoltaic	5000W
MPPT Voltage Range	60VDC~500VDC
MPPT Voltage Range@full power	360VDC~430VDC
Max Input Current	20A
NO OF MPPT	1
MECHANICAL PARAMETERS	
Chassis size / weight	800x480x135/70KG
Installation method	Floor-standing or wall-mounted
ENVIROMENTAL PARAMETERS	
Storage humidity	≤85%RH
Operating temperature	-5 °C~55 °C
IP Class	IP54