

10kWh battery energy storage system

Feature:

- Long service life of more than 10 years.
- Modular design, small size and light weight.
- Support high current charging and discharging.
- Optional RS485, RS232, CAN communication.
- Easy to operate, easy to install and maintain.

Applications:

- Home energy storage
- Commercial energy storage
- Base station energy storage
- Photovoltaic energy storage



For reference only , please regards the real products as the standard.

Battery System Parameters:

Characteristic	Parameter	Remark
Battery type	Lithium iron phosphate battery	
Rated capacity	10kWh	
Minimum capacity	≥10kWh	Standard charging and discharge
Maximum continuous discharge	10kW	
Rated output voltage	51.2V	
Standard charging voltage	58.4V	
Standard charging current	40A	
Maximum continuous charge current	200A	
Standard discharge current	120A	
Maximum continuous discharge current	200A	
Discharge cut-off voltage	40.0V	
operating temperature	-10-55℃	
Storage temperature	-20-45℃	
Communication port	RS232/RS485	
Operating humidity	0-95%	No condensation
Waterproof level	IP55	
Elevation	≤2000m	
Size	600*600*1000mm	
Weight	Approx:128KG	
Cycle life	≥5000	

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Inverter Controller System Parameters:

Model	5KW
AC Mode	
Rating input voltage	220/230Vac
Input voltage range	(170Vac~280Vac)±2% (90Vac~280Vac)±2%
Frequency	50Hz/60Hz(Automatic detection)
Frequency range	47±0.3Hz~55±0.3Hz(50Hz); 57±0.3Hz~65±0.3Hz(50Hz)
Overload/short -circuit protection	Breaker
Efficiency	>95%
Conversion time (Bypass and inverter)	10ms (Typical values)
AC reverse protection	Yes
Maximum bypass load current	40A
Inverter Mode	
Output voltage waveform	Pure sine wave
Rating output power(VA)	5000
Rating output power(W)	5000
Power factor	1
Rated output voltage	230Vac
Output voltage error	±5%
Output frequency range	50Hz±0.3Hz/60Hz±0.3Hz
Efficiency	>92%
Overload protection	(102%<Load is less than 125%) ± 10%: After reporting an error and closed the output after 5 minutes; (125%<Load less than 150%) ± 10%: After reporting an error and closed output after 10 seconds; (Load> 150%) ± 10%: Report the error and turn off the output after 5 seconds
Peak power	10000VA
Loaded motor capability	4HP
Rated battery input voltage	48V(Minimum starting voltage 44V)
Battery voltage range	40.0VDC ~ 60VDC ± 0.6VDC (IOU Police Police/Shipping Voltage/Excessive Police Police/Overvoltage Recovery ... LCD screen can be set)
Power -saving mode self-consumption	Load≤50W

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AC Charging	
Battery type	Lead -acid battery or lithium battery
Maximum charging current	60A
Charging current error	±3Adc
Charging voltage range	40-58Vdc
Over -charging protection	The alarm and closed the charging after 1 minute
PV Charging	
Maximum PV opening voltage	500Vdc
PV operating voltage range	120-500Vdc
MPPT voltage range	120-450dc
Battery voltage range	40-60Vdc
Maximum PV input power	5500W
Maximum PV charging current	80A
Basic parameters of inverters	
Permitted parallel number	1-6
Range of working temperature	15℃ ~55℃
Storage temperature range	-25℃ ~60℃
Humidity range	5%~95%
Noise	≤60db
Size	426mm*322*124mm(L*W*D)
Weight	10.8kg



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Solar photovoltaic board parameters:

Configuration	3200W
System Parameters	
Type	Single crystal silicon
PV maximum power	3200W
System charging time	About 5 hours
Solar panel bracket	Optional
Single Component Parameter	
Maximum power	320w
Maximum power point voltage	31.3V
Maximum power point current	10.22A
Open circuit voltage	36.7V
Short -circuit current	10.9A
Maximum system voltage	1000V
Maximum operating current	15A
Size	1600*1036*35mm
Weight	19.8KG

