

ESS-IBH Series

Residential Energy Storage System



MAIN FEATURES

- ▶ Off grid or hybrid optional
- ▶ 2 MPPT input, 8KW PV array power
- ▶ 6KW inverter, Max 6pcs in parallel (3pcs for one base)
- ▶ Grade A battery cells, up to 6000+ cycles
- ▶ 5.5KWh battery, Max 12pcs in parallel (6pcs for one base)
- ▶ Easy to install, combined freely
- ▶ BMS & battery capacity auto-sense
- ▶ WiFi/GPRS remote monitoring (optional)



SPECIFICATION

Model	ESS-IBH610648
Inverter Part	
Model	ESS-IH6048
Rated Power	6KVA/6KW
System DC Voltage	48Vdc
Parallel Option	Max 6pcs in parallel (3pcs for one base)
Monitoring Option	WiFi/GPRS
Inverter Output	
AC Output	220V-230V-240VAC
Surge Power	12000VA
Peak Conversion Efficiency	94%
Transfer Time	10ms (for personal computers) 20ms (for home appliances)
Waveform	Pure sine wave
Self Consumption at 0 Load	<70watt
Solar Charger	
Type of PV Array Input Terminal	MC4
Max. PV Array Open Circuit Voltage	500Voc
Max. PV Input Current/Per String	16A
Number of PV Array Input	2 Strings
Max. PV Array Power	Each String: 4000watt; Total 8000watt
MPPT Working Range	120-450VDC
Battery Overcharge Protection	60VDC
Max Solar Charge Current	100A
AC Charger (Grid/Generator)	
Max. Grid Charge Current	80A
Max.(AC+PV) Current	100A
Protection	Overload, Short circuit, Overcurrent, Overvoltage, Undervoltage, Over-Frequency, Under-Frequency, Overheat, Lightning, Surge Power
Physical	
Dimension	630x440x150mm
Net Weight	16KG
Communication Interface	CAN/RS485/USB
Environment	
Humidity	5% to 95% Relative Humidity (non-condensing)
Altitude	<2000m
Operating Temperature	0°C~55°C
Storage Temperature	-15°C~60°C
Noise	<60db
Certificate	CE, IEC62109-1, IEC62109-2
Battery Part	
Model	ESS-BH106
Battery Voltage	51.2V
Battery Capacity	104Ah
Max. Energy	5.5KWh
Max. Capacity	106Ah
Available Capacity	100Ah
Available Energy	5KWh
Working Voltage Range	40-58.4V
Discharge Cut-off Voltage	40V
Parallel Max. Units	Max 12pcs in parallel (6pcs for one base)
Max. Charge and Discharge Current	100A
Peak Discharge Current / Time	250A/150ms
Cycle Life	6000cycles @ 80%DOD, 0.2C
IP Rating	IP 20
Dimension	630x440x150mm
Communication BMS	RS485/CAN
Warranty	5 Years
Weight	48KG
Operation Temperature Charge	0-55°C
Operation Temperature Discharge	-20-55°C
Storage Environment	-20~+55°C, 10~90%RH
Certification	CE(EMC)/UN38.3/MSDS/ROHS
Mounting Base	
Model	ESS-MBH
Dimension	630x440x132mm