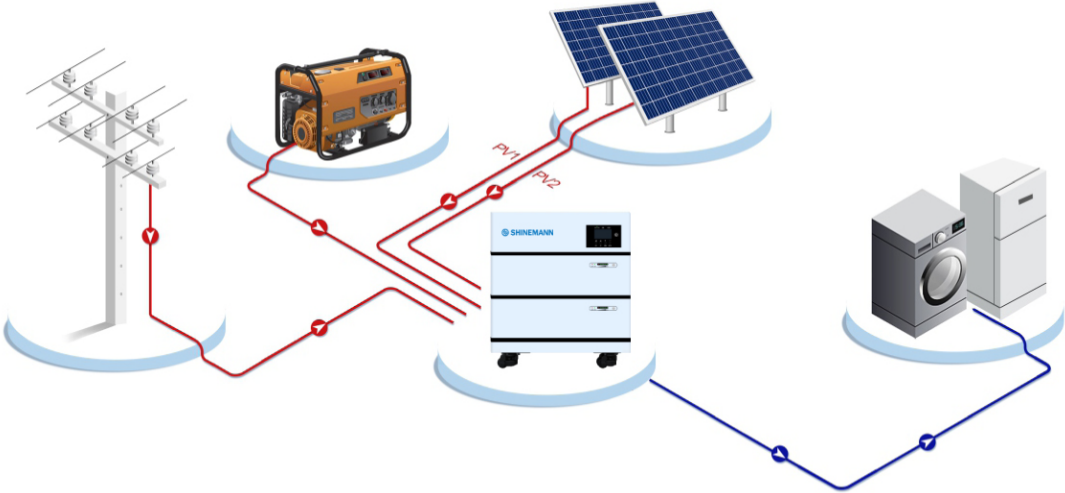


Shinemann-ESS-48

Residential Energy Storage System

MAIN FEATURES

- ▶ All-In-One Energy Storage System
- ▶ Standard 6kw inverter with expandable function up to 3 units
- ▶ 500Voc High Voltage MPPT built-in
- ▶ Standard 5.5kwh battery with expandable function up to 6 units
- ▶ No matching and commissioning required, ready to install
- ▶ WiFi/GPRS remote monitoring (optional)



SPECIFICATION

Model		Shinemann-ESS-48
Inverter Part		
Model	Shinemann-ESS-48	
Rated Power	6KVA/6KW	
System DC Voltage	48Vdc	
Parallel Option	Max 6 units (Software Allow), Max 3 units (Mounting Base allow)	
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) rrent	100A	
Protection	Overload, Short circuit, Overcurrent, Overvoltage, Undervoltage, Over-Frequency, Under-Frequency, Overheat, Lightning, Surge Power	
Physical		
Dimension	630x450x165mm	
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	Shinemann-ESS-48	
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 12 units (Software Allow), Max 6 units (Mounting Base allow)	
Max. Charge and Discharge Current	100A	
Peak Discharge Current / Time	250A/150ms	
Cycle Life	6000cycles @ 80%DOD, 0.2C	
IP Rating	IP 20	
Dimension	630x450x165mm	
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	Shinemann-ESS-48	
Dimension	630x450x132mm	