

# Stand All-in-one Energy Storage System

SMA series : SSH-3KW51.2V100AH/5KW51.2V100AH/200AH



SSH series integrates inverter, controller, and battery into one set. It is an independent small solar power station, Supports wall or ground installation. It is ideal for relatively large residential or small commercial and industrial applications.

- Pure Sine Wave Output, Adaptable to Different Loads
- UPS Function: Transfer Time <20ms
- Multiple Working Mode: Photovoltaic/ Battery/AC Priority
- Configurable Proportion of Photovoltaic, Mains, and Battery Input
- On & off-grid Energy Storage System Can Maximize the Use of Photovoltaics
- Intelligent BMS, Automatic Restoration and Maintenance-free
- High Capacity and High Power Efficiency
- Overload protection function through grid connected CT (optional)



# Technical Data

Model	SSH-3KW51.2V100AH	SSH-5KW51.2V100AH	SSH-5KW51.2V200AH
<b>Solar Input Data</b>			
Max. PV Array Power	5500W		
MAX DC Voltage	450VDC		
MPPT Voltage Range	120~450V		
MPPT Tracker / Strings	1		
Max. Solar Charge Current	80A		
Max. AC Charge Current	60A		
Max. Charge Current	80A		
<b>AC Data</b>			
Rated Power	3000VA/3000W	5000VA/5000W	
Efficiency (Peak)	Up to 93.5%		
Grid Voltage / Range	230 VAC ± 5%		
Frequency	50Hz / 60Hz		
Waveform	Pure Sine Wave		
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances);		
Surge Power	10000VA		
<b>Battery Data</b>			
Nominal Voltage	51.2V		
Rated Capacity	100AH	200Ah	
MAX Charging/Discharging Current	100A	200A	
Battery Cycle Life	SMA series : ≥6000 Times @ 80%DOD & 0.5C, 25°C / ECO series: ≥3000 Times @ 80%DOD & 0.5C, 25°C		
SOC Estimation	Yes		
Intelligent Balance	Yes		
GPS Positioning	Yes		
Sleep and Wake-up	Yes		
<b>System Data</b>			
Nominal Output Power	3000W	5000W	
Rated Capacity	5.12kWh	10.24kWh	
Cell Type	LiFePO4		
IP Protection	IP20		
Warranty	SMA:5Years / ECO: 2 Years (Optional)		
<b>Protection</b>			
Arc Fault Protection	Yes (Optional)		
Anti-reverse Protection	Yes		
Anti-island Protection	Yes		
DC Over Current Protection	Yes		
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Other Protection	AC Over current; AC Over voltage; Over temperature Protection		
<b>General Data</b>			
Transfer Time	10ms (For Personal Computers) ; 20ms (For Home Appliances);		
Interface	RS232/RS485/CAN		
Display	Keypad Screen		
Operating Temperature	Charging: 0°C~50°C / Discharging: -15°C~60°C		
Cooling	Forced air cooling		
Relative Humidity	5% to 95% Relative Humidity (Non-condensing)		
Altitude	>2000m Derating		
Dimensions (W*D*H)	800*480*155mm 880*560*235mm(Packege)	970*580*155mm 1055*665*340mm(Packege)	
Weight	N.W.57KG G.W.61.5KG	N.W.105kg G.W.117.5kg	
Battery Safety Standard	EN/IEC 62109-1 ; EN/IEC 62109-2		
System Safety Standard	CE, UN38.3, MSDS		