



Single Phase

STORAGE SYSTEM

PRODUCT MODEL

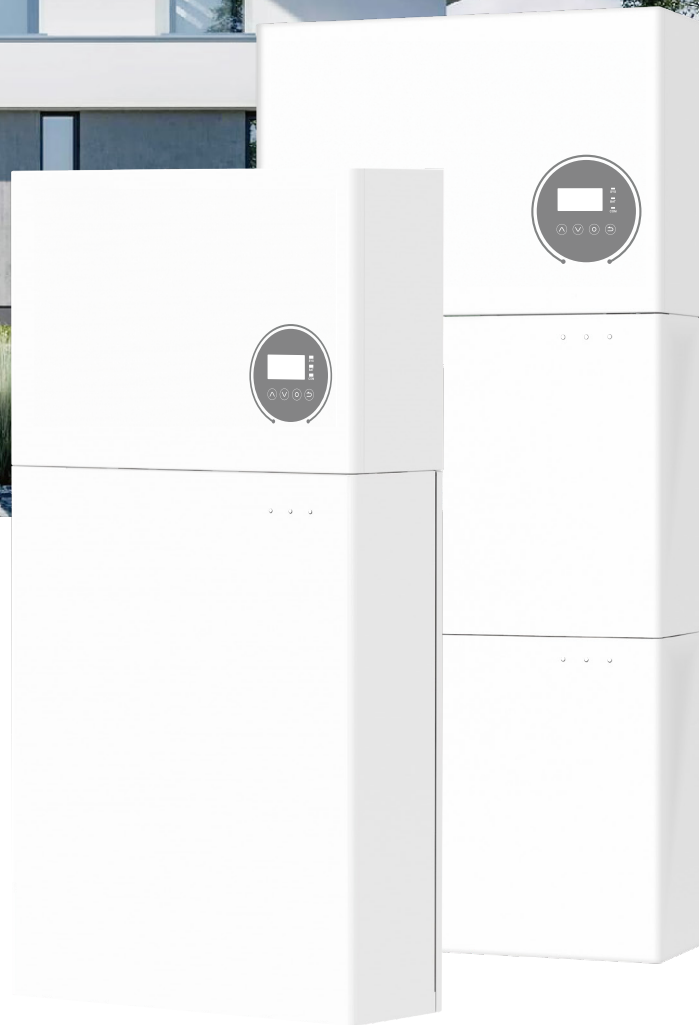
INVERTER

■ INV-SPH6K

+

BATTERY

■ BAT-4.8S / BAT-9.6P



HIGH PERFORMANCE

- 166% PV over management;
- 200% backup overload capacity, 50A battery current;
- Max. efficiency 97.3%, Battery efficiency 97%;
- Load monitoring accuracy 10W, Battery discharging threshold 10W.



HIGH RELIABILITY

- UPS level redundant protection against backup load breakdown;
- Three-level firmware and two-level hardware battery protection;
- Multiple temperature monitoring, delicate thermal management.



HIGH INTELLIGENCE

- Internal EMS optimizes home energy supply automatically;
- PV production forecast;
- Built-in electric power service, FCAS, VPP, etc;
- Online monitoring, online diagnosis, online service.

PARAMETERS

INVERTER MODEL		INV-SPH6K
PV INPUT		
Max. PV Input Power	10kW	
Max. PV Input Voltage	580V	
MPPT Range	100~550V	
Max. Input Current	15A / 15A	
Max. Short Circuit Current	22.5A / 22.5A	
MPPT Trackers	2	
Strings Per MPPT Tracker	1 / 1	
AC PORT		
Rated Grid Output Power	6kVA	
Max. Grid Input Power	11.5kVA	
Rated Grid / Backup Voltage	220Vac / 230Vac	
Rated Grid / Backup Frequency	50/60Hz	
Surge Backup Power	11.5kVA / 11.5kW	
Rated Backup Power	6kVA	
THDi	<3%	
THDv	<3% (Linear Load) / <5% (Non-linear Load)	
DCV	<100mV	
Crest Ratio	3 : 1	
Transfer Time	<10ms	
EFFICIENCY		
Max. Efficiency	97.3%	
Max. Round Trip Efficiency	90%	
GENERAL DATA		
Operating Temperature Range	-20°C~60°C	
Topology	Transformerless	
Dimensions (W*H*D)	590×405×205mm	
Weight	20.5kg	
Load Monitoring	Meter / CT / Backup box	
External Communication	RS-485 / WIFI / 4G / Ethernet	
Grid Regulation	CEI 0-21, NRS 097-2-1, IEC 61727, IEC 62116, EREC G99	
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2	
BATTERY MODEL	BAT-4.8S	BAT-9.6P
Battery Type	LFP	
Battery Capacity	4.8kWh	9.6kWh
Usable Capacity	4.6kWh	9.1kWh
Depth Of Discharge (DoD)	95%	
Nominal Battery Voltage	96V	
Operating Voltage Range	90~108V	
Max. Charging Current	50A	
Max. Discharging Current	50A	
Operating Temperature Range	Charge:0°C<T<50°C / Discharge:-10°C<T<50°C	
Cycle Lifetime	8000	
Series / Parallel	1~4 In Series	1~6 In Parallel
Dimensions (W*H*D)	590×430×205mm	590x730x205mm
Weight	53.4kg	85.7kg
Communication	CAN / RS-485 (Optional)	
Safety Regulation	IEC 62619:2017, IEC 62040:2017	
Transportation	UN38.3	
SYSTEM		
Operating Altitude	≤3000m (>3000m Derating)	
Relative Humidity	0~95% (No Condensing)	
Protection Degree	IP65	
Cooling	Natural Convection	
Noise	<30dB	
Warranty	5 Years / 10 Years	
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	

Note: Specifications are subject to change without advance notice.

