



*Single Phase*

## STORAGE SYSTEM

### PRODUCT MODEL

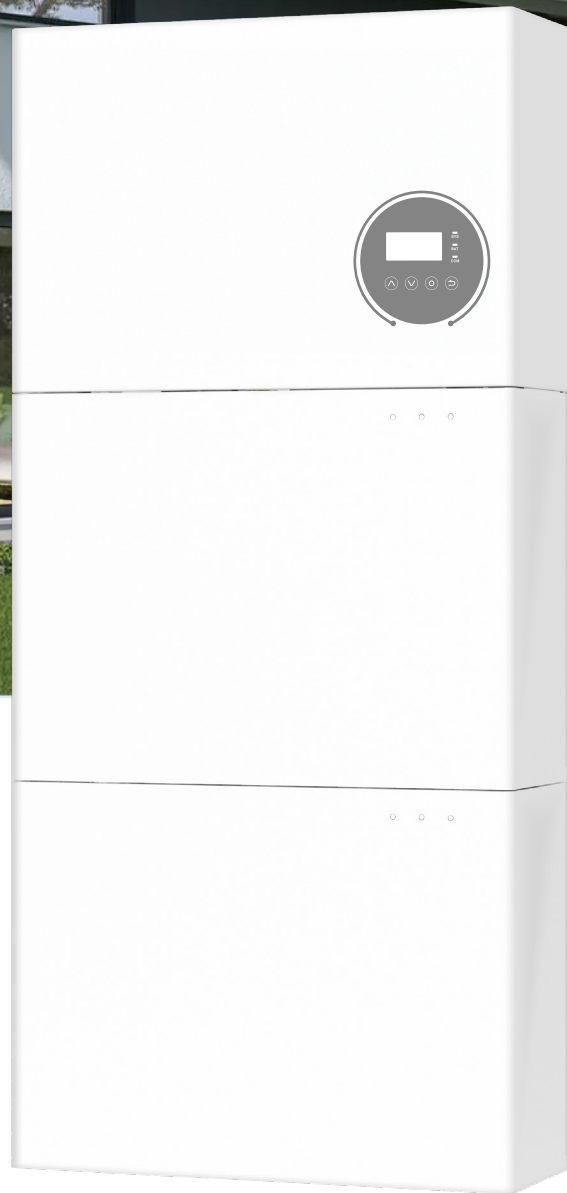
**INVERTER**

■ INV-SPH8K

+

**BATTERY**

■ BAT-4.8S



#### HIGH PERFORMANCE

- 125% PV over management;
- 125% 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-SPH8K
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		8kVA
Max. Grid Input Power		12kVA
Rated Grid / Backup Voltage		220Vac / 230Vac
Rated Grid / Backup Frequency		50/60Hz
Rated Backup Power		8kVA
Surge Backup Power		12kVA
THDi		<3%
THDv		<3% (Linear Load) / <5% (Non-linear Load)
DCV		100mV
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		21kg
Load Monitoring		Meter / CT / Backup box
External Communication		RS-485 / WIFI / 4G / Ethernet
Grid Regulation		NRS 097-2-1, EREC G99, IEC 61727, IEC 62116
Safety Regulation		IEC/EN 62109-1, IEC/EN 62109-2
BATTERY MODEL		BAT-4.8S
Battery Type		LFP
Battery Capacity		4.8kWh
Usable Capacity		4.6kWh
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
Parallel / Series		1~4 In Series
Dimensions (W*H*D)		590×430×205mm
Weight		53.4kg
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		Smart Forced Air Cooling
Noise		<45dB
Warranty		5 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.

