

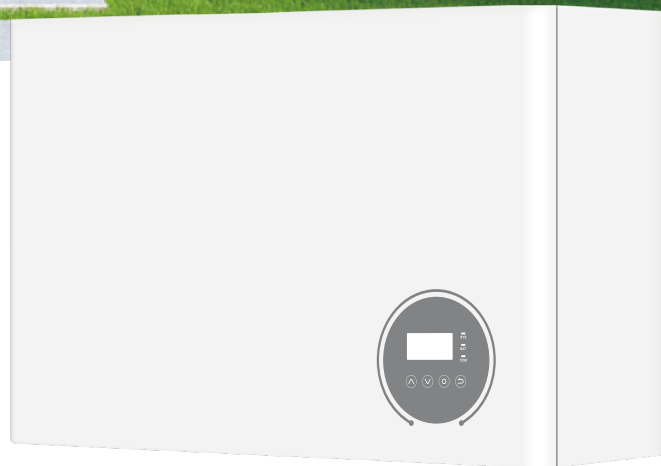


Single Phase

HYBRID INVERTER

PRODUCT MODEL

- INV-SPH8K (Hybrid Inverter)



HIGH PERFORMANCE

- 125% PV over management;
- 125% backup overload capacity, 60A 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
BATTERY PORT		
Battery Type	Li-on / Lead-acid	
Nominal Battery Voltage	96V	
Battery Voltage Range	80~467.2V	
Max. Charging Current	60A	
Max. Discharging Current	60A	
PV INPUT		
Max. PV Input Power	10kW	
Max. PV Input Voltage	580V	
MPPT Range	100~550V	
Startup Voltage	100V	
Max. Input Current	15A / 15A	
Max. Short Circuit Current	22.5A / 22.5A	
MPPT Trackers	2	
Strings Per MPPT Tracker	1 / 1	
GRID PORT		
Rated Output Power	8kW	
Max. Output current	34.7A	
Max. Output apparent power	11.5kVA	
Max. Input Power	8kVA	
Rated Grid Voltage	220Vac / 230Vac	
Grid Voltage Range	180~270Vac	
Rated Grid Frequency	50/60Hz	
Power Factor	-0.8~+0.8	
THDi	<3%	
BACKUP PORT		
Surge Backup Power	10kVA	
Rated Backup Power	8kVA	
Rated Backup Voltage	220Vac / 230Vac	
Rated Backup Frequency	50/60Hz	
THDv	<3% (Linear Load) / <5% (Non-linear Load)	
DCV	<100mV	
Crest Ratio	3 : 1	
Transfer Time	<10ms	
EFFICIENCY		
Max. Efficiency	97.3%	
European Efficiency	96.2%	
MPPT Efficiency	99.9%	
Max. Round Trip Efficiency	90%	
GENERAL DATA		
Operating Temperature Range	-20°C~60°C	
Relative Humidity	0~95% (No Condensing)	
Operating Altitude	≤3000m (>3000m Derating)	
Cooling	Smart Forced Air Cooling	
Noise	<45dB	
Topology	Transformerless	
Dimensions (W*H*D)	590x405x205 mm	
Protection Degree	IP65	
Weight	21kg	
Warranty	5 Years / 10 Years	
HMI&COMM.		
Communication With BMS	CAN / RS-485	
Load Monitoring	Meter / CT / Backup box	
External Communication	RS-485 / WIFI / 4G / Ethernet	
User Interface	LED / LCD	
CERTIFICATE		
Grid Regulation	NRS 097-2-1, EREC G99, IEC 61727, IEC 62116	
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2	
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.

