

10kW Off Grid Hybrid Inverter

SPI-10K-SP



Product Features

- Pure sine wave AC output
- Power saving function
- Multiple safety protection
- Intelligent speed control fans
- Uninterrupted power supply
- High PV output voltage
- LCD screen and LED indicator lights
- Approved CE-LVD, CE-EMC certifications
- Grid power bypass and inverter output modes
- Support grid and PV activated lithium batteries
- Support lead-acid and lithium battery connections
- High load power to meet the needs of most households

Technical Data	
Model	SPI-10K-SP
AC Charge	
Battery Type	Lithium-ion/Lead-acid/User Define
Max. AC Charge Current (A)	100
Charge Voltage Range (Vdc)	40~60
Short Circuit Protection	Circuit breaker and blown fuse
Solar Charge	
Max. PV Open Circuit Voltage (Vdc)	500
MPPT Voltage Range (Vdc)	120~425
Number of PV MPPT Tracker	2
Max. PV Input Power (W)	5,500+5,500
Max. PV Input Current (A)	22+22
Max. PV Charge Current (A)	200
Max. Hybrid Charge Current (A)	200
Charge Short Circuit Protection	Blown fuse
Wiring Protection	Inverse wiring protection
AC Input	
Rated Input Voltage (Vac)	230 (Single phase)
Input Voltage Range (Vac)	170~280
Frequency (Hz)	50/60
Frequency Range (Hz)	47±0.3~55±0.3 (50)/57±0.3~65±0.3 (60)
Overload/Short Circuit Protection	Breaker
Efficiency	>95%
Conversion Time (bypass and inverter)	10ms (Typical value)
AC Reverse Protection	Yes
Max. Bypass Overload Current (A)	63
AC Output	
Output Voltage Waveform	Pure sine wave
Rated Output Power (W)	10,000
Power Factor	1
Rated Output Voltage (Vac)	230 (Single phase)
Output Voltage Error	±5%
Output Frequency Range (Hz)	50±0.3 / 60±0.3
Max. Efficiency	>92%
Overload Protection	(102% < load < 110%) ±10%: report error and turn off the output after 5 minutes; (110% < load < 125%) ±10%: report error and turn off the output after 10 seconds; Load >125% ±10%: report error and turn off the output after 5 seconds;
Peak Power (VA)	20,000
Loaded Motor Capacity (HP)	10
Output Short Circuit Protection	Breaker
Bypass Breaker Specifications (A)	63
Rated Battery Input Voltage (Vdc)	48 (Minimum starting voltage 44)
Battery Voltage Range (Vdc)	40.0~60 ± 0.6 (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery settable on LCD screen)
General	
Certification	IEC62109, EN61000
Operation Temperature Range (°C)	-15~55
Storage Temperature Range (°C)	-25~60
Humidity Range	5%~95% (Conformal coating protection)
Noise (dB)	< 60
Heat Dissipation	Forced air cooling, variable speed of fan
Communication Interface	USB/RS485/dry node control
Size (mm)	620L×445W×130D
Weight (kg)	27