

US-Hybrid inverter

6500W

Single Phase - in Parallel



SPI4865M150-300P

Product Features

- ▶ CT Anti-Reverse Current, Zero Export to Grid
- ▶ 150% Emergency Peak Output / 5s, Withstands Continuous Impact Loads
- ▶ Peak Shaving & Valley Filling, Intelligent Electricity Price Management
- ▶ 9kW Dual-Channel MPPT, 27A/4500W per Channel
- ▶ Up to 6 Units Parallel, Split-Phase / Three-Phase System
- ▶ 10ms UPS-Level Switching, Critical Loads Uninterrupted
- ▶ 160A Battery Continuous Discharge, 150A Max. Charging Current
- ▶ Diesel Generator Input, Dry Contact Start/Stop Control
- ▶ Battery-Free Operation, PV + Grid Direct Supply
- ▶ Remote Diagnostics & OTA, Dual-Source Battery Activation (PV/Grid)



Specification

Parallel mode	
Permitted parallel number	1-6
ACmode	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input voltage range	(85Vac~140Vac) ±2%
Frequency	50Hz/60Hz (Auto detection)
Frequency Range	47+0.3Hz~55±0.3Hz (50Hz);57+0.3Hz~65±0.3Hz (60Hz)
Overload/short circuit protection	Circuit breaker
Efficiency	>95%
Conversion time (bypass and inverter)	10ms (typical)
AC reverse protection	Yes
Maximum bypass overload current	2pole, 60A/60A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	Split phase: 6500W
	Single phase: 6000W
Rated output power (W)	Split phase: 6500W
	Single phase: 6000W
Power factor	1
Rated output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)
Output voltage error	±5%
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Maximum Efficiency	>93%
Overload protection	(105% < load <110%) ±5%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds; Load >125% ± 5%: report error and turn off the output after 5 seconds;
Peak power	Split phase: 9000VA
	Single phase: 9000VA
Loaded motor capability	3HP
Output short circuit protection	Continuous short circuit 200ms protect
Bypass circuit breaker specification	2pole, 50A/50A(L1/L2)
Rated battery input voltage	51.2V (Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... setttable on LCD screen)
Power saving mode self-consump tion	Load per phase is null or less than 25W enter power-saving mode
AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	120A
Charge current error	+5Adc
Charge voltage range	40 -58.6Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	2pole, 50A/50A(L1/L2)
PV charging	
Number of MPPT groups	2
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90Vdc~485Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PV input power	4000W+4000W
Maximum PV input current	16A+16A
PV charge current(can be set)	0-120A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charger current specifications (AC charger+PV charger)	
Max charger current(can be set)	0-120A
Certified specifications	
Certification	UL1741
EMC certification leve	FCC part15, CLASS B
Operating temperature range	-10° C to 55° C(>45° C derating)
Storage temperature range	-25° C~60° C
Humidity range	5% to 95% (Conformal coating protection)
Noise	≤ 60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communicati on interface	USB/RS485/(WiFi/GPRS)/ Dry node control
Size (L*W*D)	696mm*483mm*214mm
Weight (kg)	18.9KG