

US-Standard Hybrid Inverters

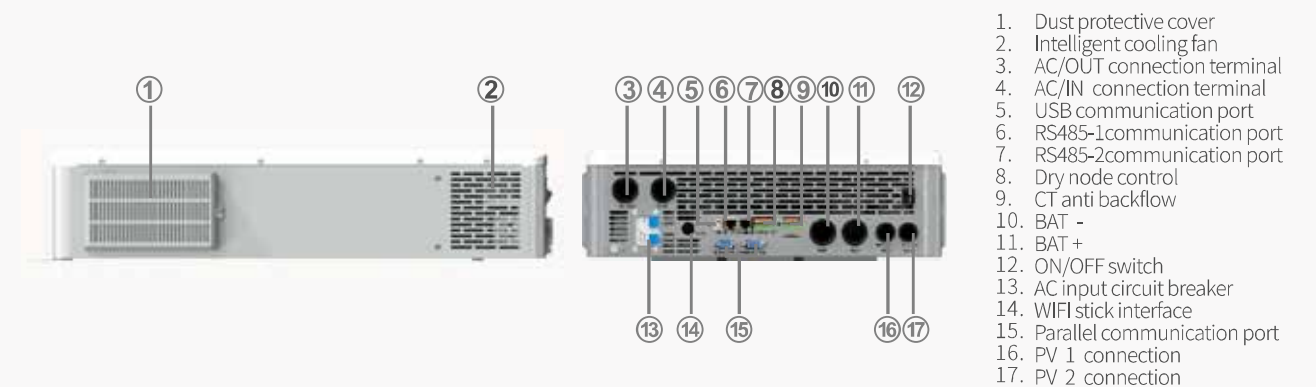
Model: HSP1-LV12



- CT Zero export to grid.
- UPS-Level Switching time down to 10ms.
- Support faster charging with battery current up 220A.
- Supports use without battery. PV and grid can supply power to load together.

- 125% EPS peak output in 5s.
- Easy & intuitive capacitive touch screen.
- Up to 6 inverters in parallel or change single phase system.
- Inverter and Grid hybrid Power supply capable of with standing continuous impact loads.
- Usable PV power up to 150% inverter rated power, Dual-channel MPPT, 27A*2 PV input, compatible with all residential modules and flexible arrays.

Interface Description



Solar System Connection



Green energy, better life.

Model	HSP1-LV12
AC mode	
Rated input voltage	120(L1/N, L2/N)/240Vac(L1/L2)
Input phase voltage range	(85Vac~140Vac)±2%
Frequency	50Hz/60Hz (Automatic 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 phase overload current	2 pole, 60A/60A(L1/L2)
Inverter mode	
Output voltage waveform	Pure sine wave
Rated output power (VA)	Split phase: 12000 Single phase:7200(limited by the wiring terminals)
Rated output power (W)	Split phase: 12000 Single phase: 7200(limited by the wiring terminals)
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	>91%
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: 18000VA Single phase: 18000VA
Loaded motor capability	6HP
Output short circuit protection	Can protect, after continuous short circuit for 1 second
Bypass circuit breaker phase specification	2 pole, 63A/63A(L1/L2)
Rated battery input voltage	51.2V (Minimum starting voltage 44V)
Battery voltage range	40.0Vdc~58.6Vdc0.6Vdc (Undervoltage alarm/shutdown voltage/ overvoltage alarm /overvoltage recovery... setttable on LCD screen)
Power saving mode self-consumption	Load ≤ 25W enter power-saving mode

AC charging	
Battery type	Lead acid or lithium battery
Maximum charge current(can be set)	160A
Charge current error	±5Adc
Charge voltage range	40-58.6Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker phase specifications	2 pole, 60A/60A(L1/L2)
PV charging	
Number of MPPT groups	2
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	90Vdc~500Vdc
MPPT voltage range	90Vdc~450Vdc
Battery voltage range	40-58.6Vdc
Maximum PV input power	6000W+6000W
Maximum PV input current	22A+22A
PV charging current range(can be set)	220A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Hybrid charging Max charging current specifications (AC charging+PV charging)	
Max charger current(can be set)	0-220A
Certified specifications	
Certification	UL STD.1741
EMC certification level	FCC part 15, 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
Communication interface	USB/RS485/WiFi/GPRS/ Dry node control
Product dimensions (L*W*H)	580x359x127mm
Packaging dimensions (L*W*H)	640x450x220mm
Net weight/Gross weight (kg)	15/17.5