



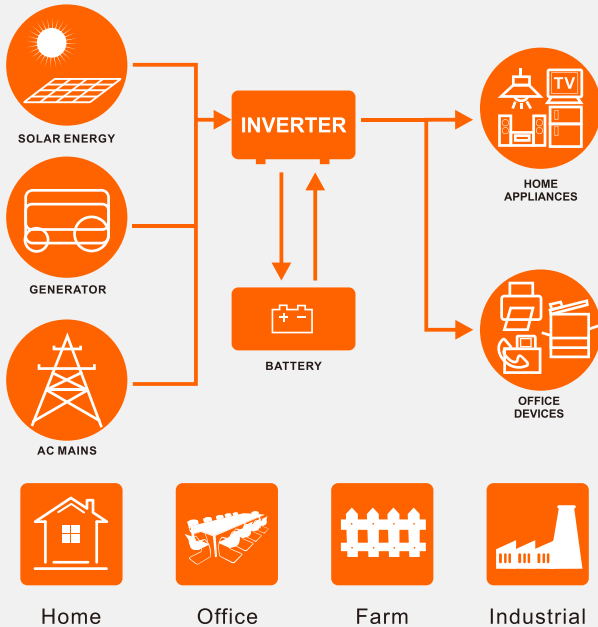
*Pure Sine Wave and **MPPT** Controller built-in*

Off Grid Hybrid Inverter

MODEL: MPS4000 / MPS5000

MPS is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for charging the battery bank, transformerless design provides reliable power conversion in compact size, besides, it's worry-free to start up motor-type loads such as refrigerators, motors, pumps, compressors and laser printers as well as electronic loads like TVs, computers, power tool and battery chargers.

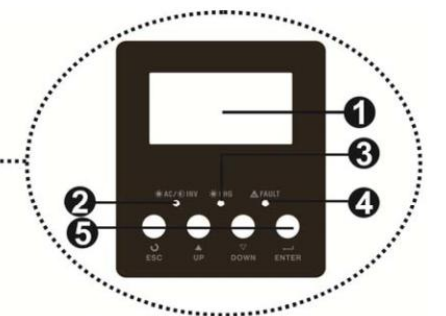
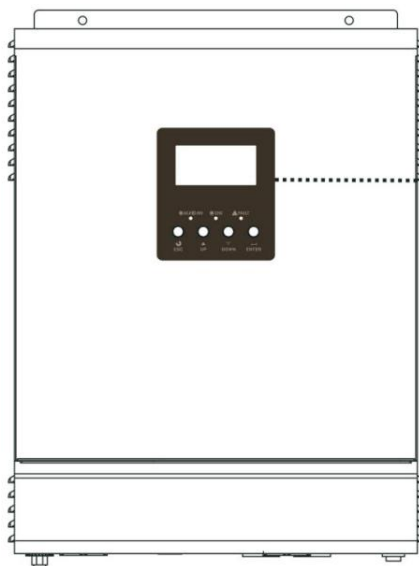
Applications



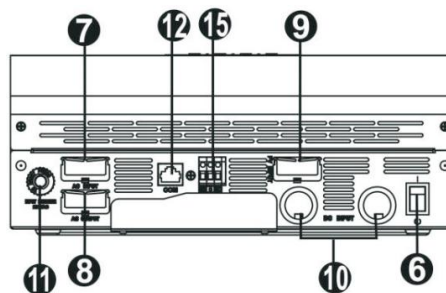
Features

- Pure sine wave inverter and MPPT charger controller unit built-in.
- Selectable input voltage range for home appliances and personal uses.
- Selectable charging current based on applications.
- Configurable AC power/solar power input priority as option.
- Compatible to mains voltage or generator power.
- Auto restart while AC power is recovering.
- Overload and short circuit protection.
- Smart charging system to optimize battery performance.
- Cold start function.
- Parallel operation with up to 6 units total capacity Max. 30kVA.

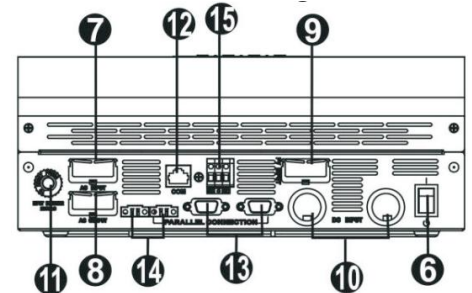
Product overview



- | | |
|--|-----------------------|
| (1). LCD display | (2). Status indicator |
| (3). Charging indicator | (4). Fault indicator |
| (5). Function buttons | (6). On/Off switch |
| (7). AC input | (8). AC output |
| (9). PV input | (10). Battery input |
| (11). Circuit breaker | (12). RS232 port |
| (13). Parallel port(only for MPS4000/MPS5000) | |
| (14). Current sharing port(only for MPS4000/MPS5000) | |
| (15). Dry contact | |



MPS4000 / MPS5000 standalone



MPS4000 / MPS5000 in parallel

INPUT DATA	MODEL	MPS4000-48	MPS5000-48	MPS5000-48Plus
Parallel capacity		Yes, Max. 6 units(option)	Yes, Max. 6 units(option)	Yes, Max. 6 units(option)
Rated power		4000VA/3200W	5000VA/4000W	5000VA/4000W
DC input voltage		48VDC	48VDC	48VDC
AC input voltage selectable		90-280VAC/170-280VAC 50-60Hz		
OUTPUT DATA				
AC output voltage		230VAC±5% 50Hz		
Surge power		8000VA	10000VA	10000VA
Efficiency(Peak)		93%	93%	93%
Transfer time		10-20ms	10-20ms	10-20ms
Waveform		Pure sine wave	Pure sine wave	Pure sine wave
BATTERY&AC CHARGER				
Battery voltage		48VDC	48VDC	48VDC
Floating charge voltage		54.0VDC	54.0VDC	54.0VDC
Overcharge protection		60.0VDC	60.0VDC	60.0VDC
Max. charge current		20A or 30A	20A or 30A	20A or 30A
SOLAR CHARGER				
Max. PV open voltage		145VDC	145VDC	145VDC
Max.PV power		3000W	4000W	4000W
Max. PV charge current(MPPT)		60A	60A	80A
MPPT operating voltage		60-115VDC	60-115VDC	60-115VDC
Max. efficiency		98%	98%	98%
Standby power consumption		2W	2W	2W
OPERATING CONDITIONS				
Humidity		5% to 95% relative humidity(non condensing)		
Operating temperature (Inside inverter)		0℃ ~ +55℃		
Storage temperature		-15℃ ~ +60℃		
Cooling concept		Fan - cooling		
Degree of protection (Waterproof)		IP40		
Integrated ground		Equipment ground is provided by PE in AC cable, no additional ground is required		
Mechanical parameters				
Dimensions(D×W×H)mm		140×295×540	140×295×540	140×295×540
Net weight(kgs)		12.5	13.5	14.0

* Typical transfer time for parallel operation is 30ms.

* Product specifications are subject to change without further notice.

