HES Sun. Energy Life.

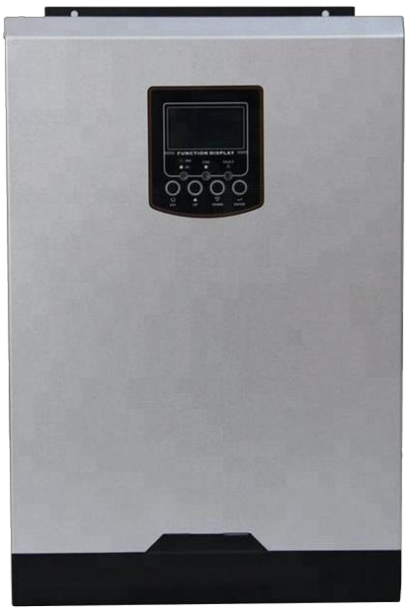
Born for Sun.
Light for You.

All in one solar inverter

HES MPS-V series all in one solar system is the perfect go to solution for off grid, back up power for homes ,small business, and it also delivers a value added ,easy to install system that provides efficient power globally for every need.

Features

Built in True sine wave voltage(PF=1)
Wide PV input(12VDC-500VDC)80A MPPT SCC
Graphical LCD Display
Surges to 2*continuous power , 5seconds for motor loads.
Utility and solar input prioritization
90VAC-280VAC grid input
Harsh environment
Easy replacement boards and spare parts
Monitor, troubleshot, or communication with USB/RS232
Working without batteries in Sunday.
Lithium battery charging



Protections

Overcharge
Reverse polarity of modules, for battery via fuse
Deep discharge
Short circuit of load and module
Reverse polarity by internal fuse
Reverse current at night
Over temperature and overload

Interfaces

RS-232 serial interface to PC
Connection to PC via USB
Wifi/GPRS monitoring

Certifications

CE RoHS ISO9001

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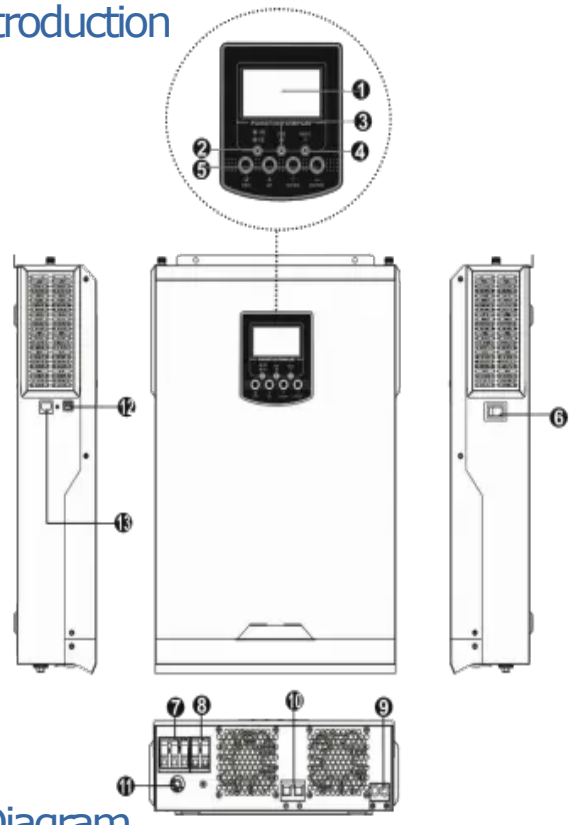
Specification

Model	MPS-V-3000-24	MPS-V-5000-48
RATED POWER	3200VA/3200W	5000VA/5000W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(For Personal Computers)	
	90-280VAC(For Home Appliances)	
Frequency Range	50Hz/60Hz(Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC±5%	
Surge Power	6000VA	10000VA
Efficiency (Peak) PV to INV.	97%	
Efficiency (Peak) Battery to INV.	94%	
Transfer Time	10ms(For Personal Computers); 20ms(For Home Appliances)	
Waveform	Pure sine wave	
BATTERY & ACCHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	80A	60A
SOLAR CHARGER		
Maximum PV Array Power	4000W	5000W
MPPT Range @ Operating Voltage	120~450VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	80A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	100x300x440	
Net Weight (kgs)	9	10
Communication interface	USB/RS232	
Monitoring	WIFI/GPRS(optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	

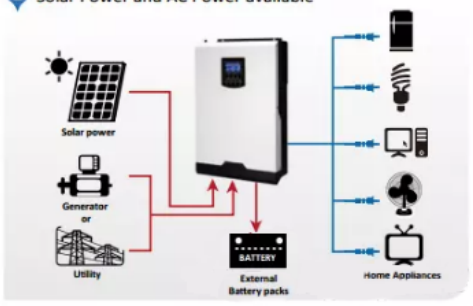
Product introduction



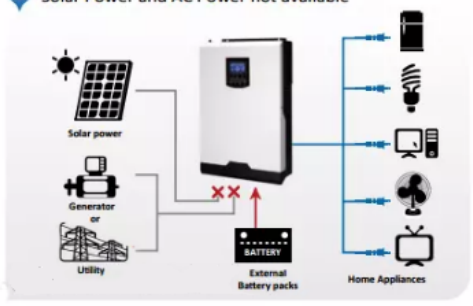
1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker

System Diagram

1 Solar Power and AC Power available

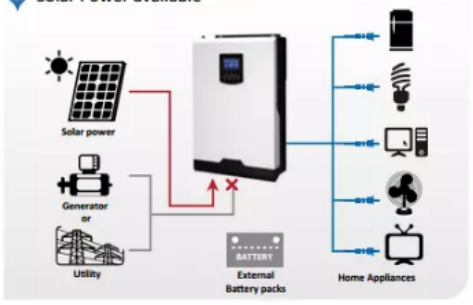


2 Solar Power and AC Power not available



Operation without battery connected

3 Solar Power available



4 AC Power available