

ON/Off Grid Solar Inverter

High Frequency **SX-MPS-VX SERIES**



- **4.5KW/6.5KW**
- **220V**
- **24V/48V**

SX-MPS-VX Series is a combination of high frequency inverter, AC charger and MPPT solar controller

Features :

- On/Off Grid Solar Inverter
- Working without batteries in sunny day
- Under Battery Mode can adjust ac voltage to 110vac or 220vac
- SBU Mode : Utility Power ,battery and PV Power complement each other
- Pure sine wave solar inverter
- Unique glass top cover design with 6.25inch LCD display and touchable buttons
- Built-in 150A MPPT (Max PV 8000W) solar charger
- High PV input range from 55V-450Vdc
- Smart battery charger design for optimized battery performance
- Configurable AC/Battery input priority via LCD setting
- Auto restart while PV is recovering
- Over-load , over temperature and output short circuit protection
- Cold restart function
- Built-in lithium battery automatic activation
- Communication with RS232/RS485
- WiFi monitoring function (optional)
- Anti-dust kit for harsh environment(optional)
- Restore default Settings with one click



More Image



Application

Designed for Areas with:

Unstable grid power, need backup power .

Main concern is sustainable power supply .



Ground-mounted solar power system

Designed for Areas with :

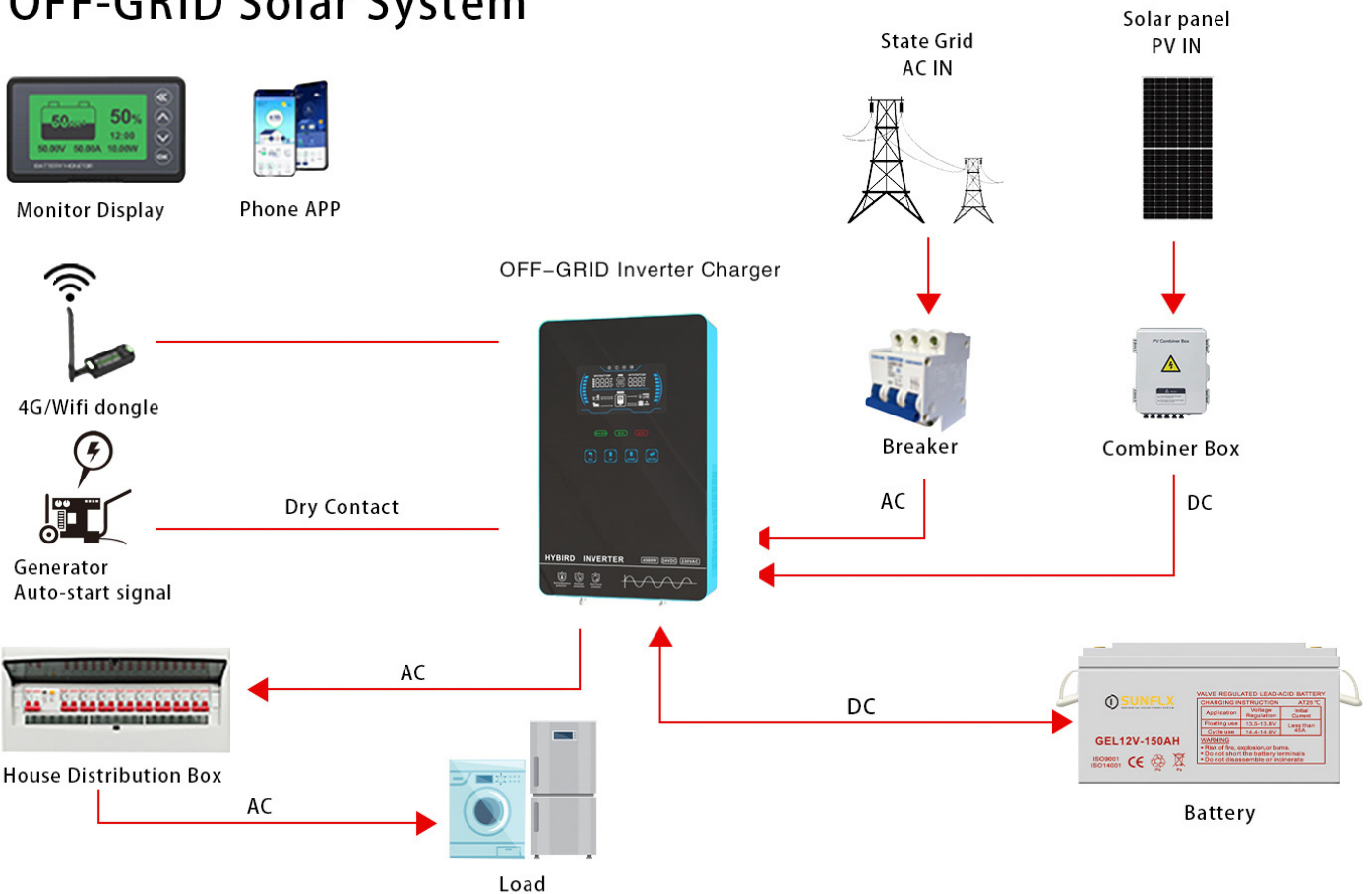
Stable grid power, but electricity price is expensive .

Main concern is reducing electricity bills.



Rooftop system on residential buildings

OFF-GRID Solar System



Data sheet

MODEL	MPS-VX 4.5KW	MPS-VX 6.5KW
Rated Power	4500W	6500W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	175-265VAC(for personal computers) 90-265VAC(for home appliances)	
Frequency Range	50Hz/60Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC ± 5%	
Surge power	2* rated power for 5 seconds	
Efficiency(Peak) PV to INV	97%	
Efficiency(Peak) BAT to INV	94%	
Transfer Time	10ms (for personal computers) 20ms (for home appliances)	
Wave form	Pure Sine Wave	
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Bulk Charging Voltage	Flooded Battery	29.2VDC
	AGM/GEL Battery	28.2VDC
Floating Charge Voltage	27.6VDC	54VDC
Overcharge Protection	32VDC	63VDC
Maximum charge current	140A	110A
SOLAR CHARGER		
MAX.PV Array Power	7200W	7200W
MPPT Range@ Operating Voltage	55-450VDC	
Maximum PV Array Open Circuit Voltage	450VDC	
Maximum Charging Current	150A	130A
Maximum Efficiency	99%	
GRID-TIE OPERATION		
PV INPUT(DC)	55-450Vdc	
Nominal DC Voltage/MAXimum DC Volatge	360Vdc/450Vdc	
Start-up Voltage/Initial Feeding Voltage	55Vdc	
MPPT Voltage Range	55Vdc-360Vdc	
Number of MPPT Trackers/Maximum Input Current	1/20A	
GRID OUTPUT(AC)		
Nominal Output Voltage	230Vac	
Output Voltage Range	176V-264V	
Nominal Output Current	19.5A	28.2A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49~51+1Hz	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
MPPT Efficiency	99. 90%	
PHYSICAL		
Dimension.D*W*H(mm)	400*250*89mm	
Net Weight (kgs)	7.5kg	8.5kg
Communication Interface	RS485/RS232(Standard) LCD remote/WIFI(Optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	