Off Grid Solar inverter

》Product Data Sheet

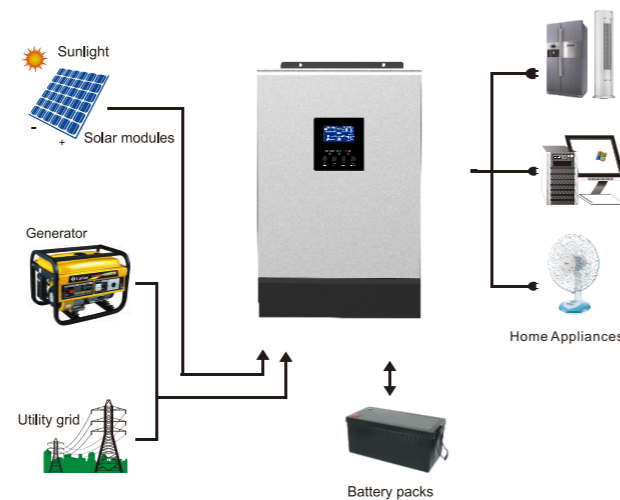| MODEL	MPS 1K-24	MPS 3K-24		MPS 5K-48
Rated Power	1000VA/800W	3000VA/2400W		5000VA/4000W
INPUT				
Voltage	230VAC			
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)			
Frequency Range	50Hz/60Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Surge power	2000VA	6000VA		10000VA
Efficiency(Peak)	90-93%	93%		93%
Transfer Time	10ms (for personal computers) 20ms (for home appliances)			
Wave form	Pure Sine Wave			
BATTERY & AC CHARGER				
Battery Voltage	24VDC	24VDC		48VDC
Floating Charge Voltage	27VDC	27VDC		54VDC
Overcharge Protection	31VDC	31VDC		60VDC
Maximum charge current	10A/20A	20A/30A		10A/20A/30A/40A/50A/60A
SOLAR CHARGER				
MAX.PV Array Power	1000W	1000W	1500W	3000W/4000W
MPPT Range@ Operating Voltage	30-66VDC	30-66VDC	30-115VDC	60-115VDC
Maximum PV Array Open Circuit Voltage	75VDC	75VDC	145VDC	145VDC
Maximum Charging Current	40A	40A	60A	60A/80A
Maximum Efficiency	98%			
Standby Power Consumption	2W			
PHYSICAL				
Dimension.D*W*H(mm)	368*272*128	367.6*272	439*296*141	540*295*140/468*295*136
Net Weight (kgs)	7.4kg	8.0kg	10kg	11.5kg/13.5kg
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0ºC to 55ºC			
Storage Temperature	-15ºC to 60ºC			

》Features

- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers.
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 6 units (30KVA) only available for 5KVA

》Overview

》Solar System Connection

Sunlight
Solar modules
Generator
Utility grid
Home Appliances
Battery packs

》Power Connection

Parallel Operation with up to 6 units available for 5KVA model

Load

PC   TV   Electric fan   FM Radio   Solar Power