

VP MKS SERIES OFF-GRID POWER INVERTERS

VP MKS Inverters are equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less 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 TV's, Computers, power tool and battery chargers.



- 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
- Cold start function
- Parallel operation with up to 6 units only available for 4KVA/5KVA
- Optional Remote Control Panel available

Model	VP MKS 1K	VP MKS 3K	VP MKS 5K
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	230VAC ± 5% (Battery Mode)		
Surge Power	2000VA	6000VA	10000VA
Efficiency (Peak)	90%-93%	93%	
Transfer Time	10ms (For Personal Computers); 20ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY & AC CHARGER			
Battery Voltage	24VDC		48VDC
Floating Charge Voltage	27VDC	27VDC	54VDC
Overcharge Protection	31VDC		60VDC
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power	600W		3000W
MPPT Range @ Operating Voltage	30VDC ~ 66VDC		60VDC ~ 115VDC
Maximum PV Array Open Circuit Voltage	75VDC		145VDC
Maximum Solar Charge Current	25A		60A
Maximum AC Charge Current	20A	30A	
Maximum Charge Current	25A	30A	120A
	AC charger and solar charger can't work at the same time		
Maximum Efficiency	98%		
Standby Power Consumption	2W		
PHYSICAL			
Dimension, D x W x H (mm)	100 x 272 x 355		140 x 295 x 540
Net Weight (kgs)	6.8	7.4	13.5
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	0°C - 55°C		
Storage Temperature	-15°C - 60°C		