

## MPI1KV#12VPVKR

### Features:

#### High reliability system

- >> Advanced digital automatic control technology ensure the power durable and reliable;

#### Strong environment adaptability

- >> Wide input voltage and frequency range avoid frequent switching;
- >> 3 stages Intelligent Charging Control
- >> Off mode charging function

#### Full protection function

- >> Inverter short circuit and overload protection function Battery over discharge protection
- >> The batteries will be disconnected and protected once fully charged.
- >> Battery will be back discharge protection through solar PV panels.
- >> Solar cell module, Battery polarity reverse connection circuit protection
- >> Solar charge controller, inverter, and other internal short circuit protection.



LEAVE POWER FOR MEDAL POWER

# Technical Specifications

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<b>Model</b>	MPI1KV#12VPVKR
CAPACITY ( VA / W )	1000 / 900
Nominal Battery Voltage (lead-acid battery)	12Vdc
<b>LINE MODE</b>	
<b>INPUT</b>	
Nominal Voltage	230Vac
Voltage Range	170~280Vac (Narrow range) 90~280Vac (Wide range)
Nominal Frequency	50Hz or 60Hz
<b>OUTPUT</b>	
Voltage	230Vac
Frequency / Waveform	Tracking the Utility
Transfer Time	20ms Typical
<b>BACKUP MODE</b>	
<b>OUTPUT</b>	
Voltage	220 / 230 / 240Vac
Frequency	50Hz or 60Hz (Auto detection)
Waveform	Simulated Sine Wave
Protection	Low battery alarm, low battery shutdown, over charge protection, overload protection, over temperature protection, short circuit protection
<b>Battery charger (power by AC)</b>	
Charging algorithm	3-steps charging
AC charging mode	10A / 20A
Floating charging voltage	13.75±0.25V
Overcharging voltage	15.30V
<b>Solar battery charger</b>	
MAX. input power	600W
Charging current (PWM)	50A
System DC Voltage	12Vdc
Optimal work voltage range	15V~18V
MAX. PV input voltage	40V
MAX. PV input current	50A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension (D×W×H) mm	316×227×92
Net Weight (kg)	3.1
<b>ENVIRONMENT</b>	
Operating Environment	0~50°C, 0%~90% relative humidity (Non-condensing)
Storage Environment	-15°C to 55°C, 0% to 90% humidity (Non-condensing) Noise Level
Less than 50dB	
Built-in USB Charger (5V×1A max)	Optional
AC input voltage range selection	Yes
AC charging current selection	Yes
Low DC cut-off voltage setting	Yes
AC output rating voltage selection	Yes
Buzzer mute control	Yes
Battery Voltage & load percentage display	Yes