

marvel[®] Tech

Solar Energy Storage Inverter

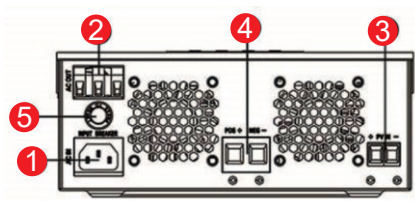


Product Snapshot

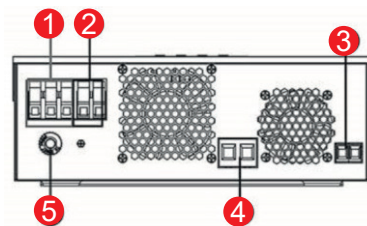
Model: 1-5kW

Nominal Voltage: 230VAC

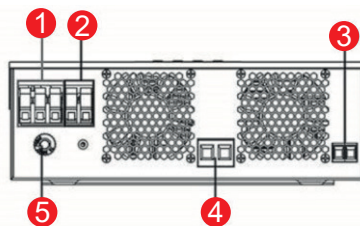
Frequency Range: 50Hz/60Hz



1KVA/2KVA



3KVA



3KVA/5KVA

- 1 AC input
- 2 AC output
- 3 PV input
- 4 Battery input
- 5 Circuit breaker

Key Features:

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains 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
- Optional anti-dusk kit

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Wall Mounted Integrated Solar Power Inverter Technical Specification
Built-in MPPT/PWM Solar Controller

MODEL	MW1012	MP1212	MW2024	MP2224	MW3024	MP3224	MW5048	MP5048
Rated Power	1000VA/1000W	1200VA/1200W	2000VA/2000W	2200VA/2200W	3000VA/3000W	3200VA/3200W	5000VA / 5000W	
INPUT								
Voltage	230 VAC							
Selectable Voltage Range	170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances)							
Frequency Range	50 Hz/60 Hz (Auto sensing)							
OUTPUT								
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%							
Surge Power	2000VA	4000VA	6000VA	10000VA				
Efficiency (Peak)	90% ~ 93%							
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)							
Waveform	Pure sine wave							
BATTERY								
Battery Voltage	12 VDC	24 VDC	48 VDC					
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC					
Overcharge Protection	16 VDC	31 VDC	33 VDC	63 VDC				
SOLAR CHARGER & AC CHARGER								
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT	PWM	MPPT
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	105 VDC	145 VDC
Maximum PV Array Power	600 W	700 W	1200 W	1400 W	1200 W	1800 W	2400 W	3000 W
MPPT Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	N/A	60~115 VDC
Maximum Solar Charge Current	50 A	50 A	50 A	50 A	50 A	65 A	50 A	65 A
Maximum AC Charge Current	20 A	20 A	20 A	20 A	25A	25A	60 A	60 A
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	80 A	110 A	120 A
PHYSICAL								
Dimension, D x W x H (mm)	88 x 225 x 320	103 x 225 x 320	88 x 225 x 320	103 x 245 x 330	100 x 285 x 334	118.3 x 285 x 360.4	100 x 300 x 440	10 x 302 x 440
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	8.5	9.7
Communication Interface	USB/RS232							
ENVIRONMENT								
Humidity	5% to 95% Relative Humidity (Non-condensing)							
Operating Temperature	-10°C to 50°C							
Storage Temperature	-15°C to 60°C							

Note:Product specifications are subject to change without further notice.

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