



# Gateway

## PMV1.2/PMV2.5 Off-Grid Inverter

inverter can operate with or without battery

Off-Grid Inverter



Model: PMV1.2  
1200/12V

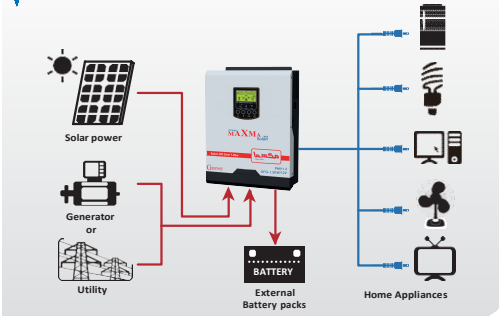
Model: PMV2.5  
2400/24V

- Pure sine wave solar inverter
- MPPT power increases to 3kw for 2.5k model
- Charging current increases to 80A
- Wide PV input voltage range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Smart battery charger design for optimized battery performance
- Cold start function
- Works without battery
- Optional feed-to-grid function

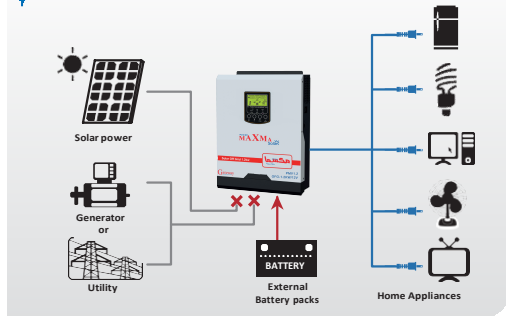
### System Diagram:

#### Operation with battery connected

1 Solar Power and AC Power available

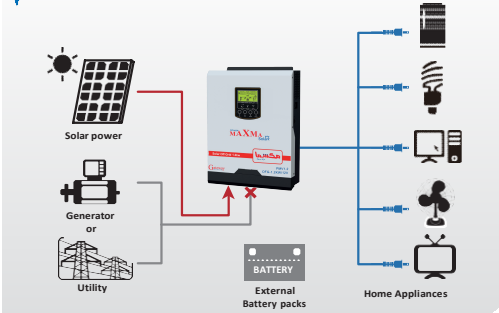


2 Solar Power and AC Power not available

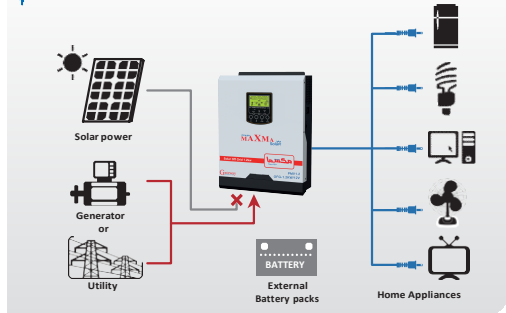


#### Operation without battery connected

3 Solar Power available



4 AC Power available



## PMV1.2kw/PMV2.5kw Off-Grid Inverter Selection Guide

MODEL	PMV1.2	PMV2.5
Rated Power	1200VA/1200W	2500VA/2500W
<b>INPUT</b>		
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)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%	
Surge Power	2400VA	5000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
<b>BATTERY</b>		
Battery Voltage	12 VDC	24 VDC
Floating Charge Voltage	13.5VDC	27 VDC
Overcharge Protection	16 VDC	32 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type	MPPT	
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC
Maximum PV Array Power	2000W	3000W
MPP Range @ Operating Voltage	60-300 VDC	60-400 VDC
Maximum Solar Charge Current	80A	
Maximum AC Charge Current	80A	
Maximum Charge Current	80A	
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	90 x 288 x 357	
Net Weight (kgs)	7.0	7.0
Communication Interface	RS232	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Product specifications are subject to change without further notice.