

# Off-Grid Inverters

Smart Energy Management

Safe | Reliable | User-friendly

## Why use an Off-Grid Inverter?

The Magneto inverter is a high-performance, fully automated solar inverter with Off-Grid capability. A compact single-phase energy management solution.

## Energy independence for peace of mind

An Inverter's function is to convert DC (Direct Current) generated from PV (Photo Voltaic) into usable AC (Alternating Current).

The Magneto Inverter uses Solar generation to produce pure sign wave AC, and by making use of battery backup, the automated system will supply, store and distribute electricity efficiently according to your needs.



**2 YEAR WARRANTY**

Models: VP-3kW-24V-SP  
VP-5kW-48V-SP



Pure sine wave



Output Power Factor 1



Compatible to AC Mains  
or generator power



Auto-restart during AC recovery



Overload and short-circuit  
protection



Cold Start function



LCD screen display



Built-in anti-dust filter

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MODEL	VP-3kW-24V-SP	VP-5kW-48V-SP
Rated Power	3000VA/3000W	5000VA/5000W
Parallel Capacity	N/A	
<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	6000VA	10000VA
Efficiency (Peak)	92% ~ 93%	
Transfer Time	10 ms (For personal Computer) - 20 ms (For Home Applications)	
Waveform	Pur Sine Wave	
<b>BATTERY</b>		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type	<b>PWM</b>	<b>MPPT</b>
Maximum PV Array Open Circuit Voltage	80 VDC	145 VDC
Maximum PV Array Power	1200W	3000W
MPP Range @ Operating Voltage	N/A	60 ~ 115 VDC
Maxmum Solar Charge Current	50A	60A
Maximum AC Charge Current	25A	60A
Maximum Charge Current	70A	120A
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	100 x 285 x 334	100 x 300 x 440
Net Weight (kgs)	6,3	9,7
Communication Interface	USB/RS232	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	