

# Axpert VM II Off-Grid Inverter

First 1.2kw/2.5kw and 3kw solar inverter can operate with or without battery



Axpert VM II-1200-12 /  
Axpert VM II-1200-24

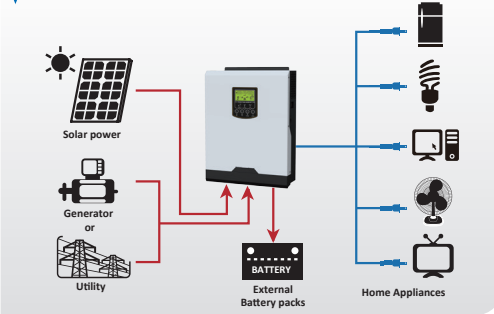
Axpert VM II Plus 3000-24

- 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

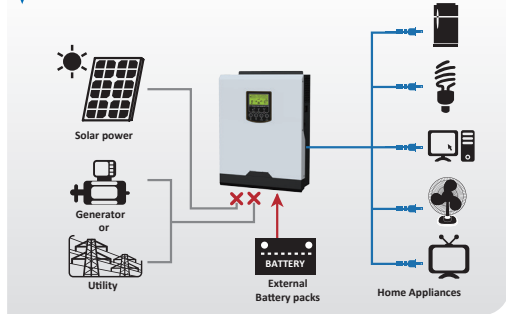
## System Diagram:

### Operation with battery connected

1 Solar Power and AC Power available

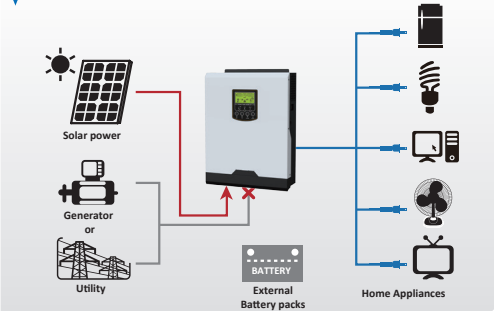


2 Solar Power and AC Power not available

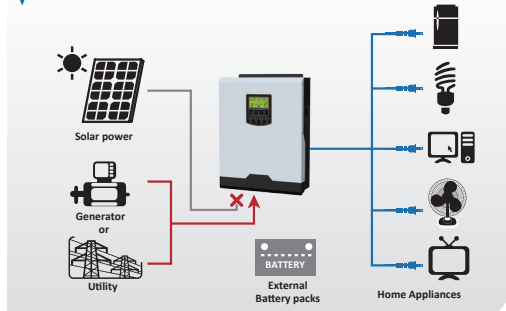


### Operation without battery connected

3 Solar Power available



4 AC Power available



## Axpert VM II Off-Grid Inverter Selection Guide

MODEL	Axpert VM II 1200-12	Axpert VM II 2500-24	Axpert VM II Plus 3000-24
Rated Power	1200VA/1200W	2500VA/2500W	3000VA/3000W
<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	6000VA
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	24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC
Overcharge Protection	16 VDC	32 VDC	32 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Solar Charger Type	MPPT		
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	450 VDC
Maximum PV Array Power	2000W	3000W	3000W
MPP Range @ Operating Voltage	60-300 VDC	60-400 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		100 x 288 x 390
Net Weight (kgs)	6.5	7.1	8.0
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.