

# ISolar MLV 5KW Off-Grid Solar Inverter



- Pure sine wave inverter
- Selectable output voltage at 120VAC/208VAC/240VAC depending on applications
- Built-in 2 strings of MPPT solar charge controller
- 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
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Maximum 3 units in parallel operation for single phase, split phase and three phase applications

Off-Grid Inverter

## 110V-120Vac Inverter/Charger Specification

MODEL	Axpert MLV 5KW
Rated Power	5000 VA / 5000 W
Parallel Capability	Yes, 3 units
<b>INPUT</b>	
Rated Input Voltage	110/120 VAC(L-N or L1-N-L2)
Input Voltage Range	95 ~ 140 VAC (For Personal Computers) 65 ~ 140 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
<b>OUTPUT</b>	
AC Voltage Regulation (Batt. Mode)	110/120 VAC(L-N or L1-N-L2)
Efficiency (Peak)	90%
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)
Waveform	Pure sine wave
<b>BATTERY</b>	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	64 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>	
Solar Charger type	MPPT
Maximum PV Array Open Circuit Voltage	145 VDC
Number of MPP Trackers	2
Maximum PV Array Power	4000 W x 2
MPP Range @ Operating Voltage	60 VDC ~ 110 VDC
Maximum Solar Charge Current	80 A x 2
Maximum AC Charge Current	60 A
Maximum Charge Current	220 A
Maximum MPPT Charging Efficiency	96 %
Maximum AC Charging Efficiency	92 %
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	130 x 622.6 x 610
Net Weight (kgs)	30
<b>OPERATING ENVIRONMENT</b>	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C - 50°C
Storage Temperature	-15°C - 60°C