

# Axpert MKS Zero LV Off-Grid Inverter



- Zero (0ms) transfer time to protect mission-critical loads
- Pure sine wave solar inverter
- Built-in 80A MPPT solar charger
- Wide DC input 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
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Parallel operation with up to 9 units

## Axpert MKS Zero LV Off-Grid Inverter Selection Guide

MODEL	Axpert MKS-ZERO LV 1000-12	Axpert MKS-ZERO LV 2000-24	Axpert MKS-ZERO LV 3000-48
<b>Rated Power</b>	1000VA/1000W	2000VA/2000W	3000VA/3000W
<b>INPUT</b>			
Voltage	120 VAC		
Voltage Range	95-140 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing) $\pm$ 4Hz		
Power Factor	$\geq$ 0.98 @ Nominal Voltage (100% Load)		
THDi	$\leq$ 10%		
<b>OUTPUT</b>			
AC Voltage Regulation (Line & Batt. Mode)	120VAC $\pm$ 5%		
Frequency Range (Synchronized Range)	46-54 Hz or 56-64 Hz		
Frequency Range (Batt. Mode)	50 Hz $\pm$ 0.1 Hz or 60Hz $\pm$ 0.1 Hz		
Harmonic Distortion	$\leq$ 3 % THD (Linear Load) ; $\leq$ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	0ms	
	Inverter to Bypass	4 ms (Typical)	
Waveform	Pure sine wave		
<b>EFFICIENCY</b>			
Line Mode	> 90%		
ECO Mode	98%		
Battery Mode	88%	90%	92%
<b>BATTERY</b>			
Battery Voltage	10~16 VDC	20~32 VDC	40~64 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC
Overcharge Protection	16 VDC	32 VDC	64 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>			
Solar Charger Type	MPPT		
Maximum PV Array Power	1000 W	2000 W	4000 W
MPPT Range @ Operating Voltage	15~115V	30~115V	60 ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC		
Maximum Solar Charge Current	80A		
Maximum AC Charge Current	60A		
<b>PHYSICAL</b>			
Dimension, D X W X H (mm)	120 x 295 x468		
Net Weight (kgs)	10.5	11	11.5
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.