

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
Rated Power	1000VA/1000W	2000VA/2000W	3000VA/3000W
INPUT			
Voltage	120 VAC		
Voltage Range	95-140 VAC		
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4 Hz		
Power Factor	≥ 0.95 @ Maximal Voltage (100% Load)		
THD	$\leq 10\%$		
OUTPUT			
AC Voltage Regulation (Line & Batt. Mode)	120VAC $\pm 5\%$		
Frequency Range (Synchronized Range)	46-64 Hz or 58-64 Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz		
Harmonic Distortion	$\leq 3\%$ THD (Linear Load); $\leq 5\%$ THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	0ms	
	Batt. Mode to Bypass	4 ms (Typical)	
Waveform	Pure sine wave		
EFFICIENCY			
Line Mode	$> 97\%$		
ECO Mode	98%		
Battery Mode	88%	90%	92%
BATTERY			
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
SOLAR CHARGER & AC CHARGER			
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	80A		
PHYSICAL			
Dimension, D x W x H (mm)	120 x 265 x 60		
Net Weight (kg)	10.5	11	11.5
Communication Interface	RS232		
ENVIRONMENT			
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.

