

Axpert MKS Off-Grid Inverter



- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- 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
- Parallel operation with up to 9 units only available for Axpert MKS 4KVA/5KVA*

OFF-GRID INVERTER

Axpert MKS Off-Grid Inverter Selection Guide

MODEL	Axpert MKS 1K-24	Axpert MKS 1K-48	Axpert MKS 2K-24	Axpert MKS 3K-24	Axpert MKS 3K-48	Axpert MKS 4K-48	Axpert MKS 5K-48
Rated Power	1000VA/ 1000W	1000VA/ 1000W	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W
Parallel Capability	No	No	No	No	No	Yes, 9 units	Yes, 9 units
INPUT							
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)						
OUTPUT							
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%						
Surge Power	2000VA		4000VA		6000VA	8000VA	10000VA
Efficiency (Peak)	90% - 93%			93%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY							
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	48 VDC	48 VDC	
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	62 VDC	60 VDC (optional 66VDC, please check with sales)	
SOLAR CHARGER & AC CHARGER							
Maximum PV Array Power	600W	900W	600W	600W	900W	4000W	
MPPT Range @ Operating Voltage	30 VDC~ 66 VDC	60 VDC~ 88 VDC	30 VDC~ 66 VDC	30 VDC~ 66 VDC	60 VDC~ 88 VDC	60 VDC~ 115 VDC	
Maximum PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	102VDC	145 VDC	
Maximum Solar Charge Current	25A	18A	25A	25A	18A	80 A	
Maximum AC Charge Current	20A	15A	30A	30A	15A	60 A	
Maximum Charge Current	45A	33A	55A	55A	33A	140 A	
Maximum Efficiency	98%						
Standby Power Consumption	2 W						
PHYSICAL							
Dimension,DxWxH (mm)	100 x 272 x 355					120 x 295 x 468	
Net Weight (kgs)	6.8		7.0		7.4		11
OPERATING ENVIRONMENT							
Humidity	5% to 95% Relative Humidity (Non-condensing)						
Operating Temperature	0°C - 55°C						
Storage Temperature	-15°C - 60°C						

*Typical transfer time for parallel operation is 30ms.
Product specifications are subject to change without further notice.