

# Axpert MKS Off-Grid Inverter



- Pure sine wave inverter
- Output power factor 1 (only 0.8 for 3KP/5KP models)
- 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
- Battery equalization for optimized battery performance and lifecycle
- Cold start function
- Parallel operation with up to 9 units only available for Axpert MKS 3KP/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 3KP-24	Axpert MKS 3K-48	Axpert MKS 4K-48	Axpert MKS 5K-48	Axpert MKS 5KP-24
Rated Power	1000VA/1000W	1000VA/1000W	2000VA/2000W	3000VA/3000W	3000VA/2400W	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/4000W
Parallel Capability	No	No	No	No	Yes, 9 units	No	Yes, 9 units	Yes, 9 units	Yes, 9 units
<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 ± 5%								
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA				
Efficiency (Peak)	90% - 93%	93%	90%	93%	90%				
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
<b>BATTERY</b>									
Battery Voltage	24 VDC	48 VDC	24 VDC	24 VDC	24 VDC	48 VDC	48 VDC	24 VDC	
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	Default: 24 VDC, Max: 30 VDC	54 VDC	54 VDC	54 VDC 54 VDC (optional 64VDC, please check with sales)	Default: 24 VDC, Max: 30 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	30 VDC	62 VDC	60 VDC	60 VDC 66VDC (optional 66VDC, please check with sales)	30 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>									
Maximum PV Array Power	600W	900W	600W	600W	1000W	900W	4000W	2000W	
MPPT Range @ Operating Voltage	30 VDC~66 VDC	60 VDC~88 VDC	30 VDC~66 VDC	30 VDC~66 VDC	30 VDC~80 VDC	60 VDC~88 VDC	60 VDC~115 VDC	30 VDC~115 VDC	
Maximum PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	100VDC	102VDC	145 VDC	145 VDC	
Maximum Solar Charge Current	25A	18A	25A	25A	40A	18A	80 A	80A	
Maximum AC Charge Current	20A	15A	30A	30A	60A	15A	60 A	60A	
Maximum Charge Current	45A	33A	55A	55A	100A	33A	140 A	140A	
Maximum Efficiency	98%								
Standby Power Consumption	2 W								
<b>PHYSICAL</b>									
Dimension,DxWxH (mm)	100 x 272 x 355				100 x 272 x 385	100 x 272 x 355	120 x 295 x 468		180 x 310 x 475
Net Weight (kgs)	6.8	7.0	7.4	7.5	7.4	12.5	13.5	12.5	
<b>ENVIRONMENT</b>									
Humidity	5% to 95% Relative Humidity (Non-condensing)								
Operating Temperature	0°C - 55°C								
Storage Temperature	-15°C - 60°C								

\* There are charging current selection only available for 230VAC system. Product specifications are subject to change without further notice.