

# 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\*

## Axpert MKS Off-Grid Inverter Selection Guide

MODEL	Axpert MKS 1K-12	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	1000VA/1000W	2000VA/2000W	3000VA/3000W	3000VA/2400W	3000VA/3000W	4000VA/4000W	5000VA/5000W	5000VA/4000W
Parallel Capability	No	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%		93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)									
Waveform	Pure sine wave									
<b>BATTERY</b>										
Battery Voltage	12 VDC	24 VDC	48 VDC	24 VDC	24 VDC	24 VDC	48 VDC	48 VDC		24 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC	27 VDC	27 VDC	Default: 24 VDC, Max: 30 VDC	54 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	Default: 24 VDC, Max: 30 VDC
Overcharge Protection	15.5 VDC	31 VDC	62 VDC	31 VDC	31 VDC	30 VDC	62 VDC	60 VDC	60 VDC (optional 66VDC, please check with sales)	30 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>										
Maximum PV Array Power	500 W	600W	900W	600W	600W	1000W	900W	4000W		2000W
MPPT Range @ Operating Voltage	15 VDC ~ 80 VDC	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	102 VDC	75VDC	102VDC	75VDC	75VDC	100VDC	102VDC	145 VDC		145 VDC
Maximum Solar Charge Current	40A	25A	18A	25A	25A	40A	18A	80 A		80A
Maximum AC Charge Current	20A	20A	15A	30A	30A	60A	15A	60 A		60A
Maximum Charge Current	60A	45A	33A	55A	55A	100A	33A	140 A		140A
Maximum Efficiency	98%									
Standby Power Consumption	2 W									
<b>PHYSICAL</b>										
Dimension,DxWxH (mm)	95 x 240 x 316		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)	5.2		6.8		7.0	7.4	7.5	7.4	11	11
<b>ENVIRONMENT</b>										
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.