

Axpert MKS Off-Grid Inverter



- Pure sine wave inverter
- Output power factor 1 (only 0.8 for 3KP/5KP models)
- Built-in battery equalization function to extend battery life cycle
- 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 with mains voltage or generator power
- 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
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%	90%	93%	90%				
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	24 VDC	48 VDC	48 VDC	24 VDC	24 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	27 VDC	Default: 24 VDC, Max: 30 VDC	54 VDC	54 VDC Max: 58VDC (optional 64VDC, please check with sales)	Default: 24 VDC, Max: 30 VDC	24 VDC
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	30 VDC	62 VDC	60 VDC (optional 66VDC, please check with sales)	30 VDC	30 VDC
SOLAR CHARGER & AC CHARGER									
Maximum PV Array Power	600W	900W	600W	600W	1000W	900W	4000W	2000W	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	30 VDC~115 VDC
Maximum PV Array Open Circuit Voltage	75VDC	102VDC	75VDC	75VDC	100VDC	102VDC	145 VDC	145 VDC	145 VDC
Maximum Solar Charge Current	25A	18A	25A	25A	40A	18A	80 A	80A	80A
Maximum AC Charge Current	20A	15A	30A	30A	60A	15A	60 A	60A	60A
Maximum Charge Current	45A	33A	55A	55A	100A	33A	140 A	140A	140A
Maximum Efficiency	98%								
Standby Power Consumption	2 W								
PHYSICAL									
Dimension,DxWxH (mm)	100 x 272 x 355				120 x 295 x 385	120 x 295 x 468	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	12.5
ENVIRONMENT									
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.