

# Axpert MKS 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 6 units only available for 4KVA/5KVA
- Optional Remote Control Panel available

INVERTER/CHARGER

## Axpert MKS 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	Axpert MKS 5K
Rated Power	1000VA/800W	1000VA/1000W	2000VA/1600W	3000VA/2400W	3000VA/2400W	4000VA/3200W	5000VA/4000W
<b>INPUT</b>							
Voltage	120 VAC or 230 VAC			230 VAC			
Selectable Voltage Range	95-140 VAC or 170-280 VAC (For Personal Computers) 65-140 VAC or 90-280 VAC (For Home Appliances)			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)	110/120 VAC ± 5% (User selectable) or 230VAC ± 5%			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						
<b>BATTERY &amp; AC CHARGER</b>							
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	
Overcharge Protection	31 VDC	62 VDC	31 VDC	31 VDC	62 VDC	60 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>							
Maximum PV Array Power	600 W	900 W	600 W	600 W	900 W	3000 W	
MPPT Range @ Operating Voltage	30VDC ~ 66VDC	60VDC ~ 88VDC	30VDC ~ 66VDC	30VDC ~ 66VDC	60VDC ~ 88VDC	60VDC ~115VDC	
Maximum PV Array Open Circuit Voltage	75 VDC	102 VDC	75 VDC	75 VDC	102 VDC	145 VDC	
Maximum Solar Charge Current	25A	18 A	25A	25A	18 A	60 A	
Maximum AC Charge Current	10 A / 20 A	10 A / 15 A	20 A or 30 A	20 A or 30 A	10 A / 15 A	60 A	
Maximum Charge Current	25A	18 A	30A	30A	18 A	120A	
Maximum Efficiency	98%						
Standby Power Consumption	2 W						
<b>PHYSICAL</b>							
Dimension, D x W x H (mm)	100 x 272 x 355					140 x 295 x 540	
Net Weight (kgs)	6.8		7.0	7.4		12.5	13.5
<b>OPERATING 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

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Inverter Power	800W	1000W	1600W	2400W	2400W	3200W	4000W
Pmax. generated from solar charger	25Amp, 600W	20Amp, 900W	25Amp, 600W	25Amp, 600W	20Amp, 900W	60Amp, 3000W	60Amp, 3000W
Best Panel Configuration	500Wp (250Wp x 2pcs)	1000Wp (250Wp x 4pcs)	500Wp (250Wp x 2pcs)	500Wp (250Wp x 2pcs)	1500Wp (250Wp x 6pcs)	3000Wp (250Wp x 12pcs)	3000Wp (250Wp x 12pcs)