

Axpert MKS Inverter with MPPT



- *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

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/1800W	3000VA/2400W	3000VA/2400W	4000VA/3200W	5000VA/4000W
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 \pm 5 %						
Surge Power	2000VA		4000VA	6000VA		8000VA	10000VA
Efficiency (Peak)	90%			93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY & AC CHARGER							
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
Maximum Charge Current	10 A or 20 A	10 A or 15 A	20 A or 30 A	20 A or 30 A	10 A or 15 A		20 A or 30 A
SOLAR CHARGER							
Maximum PV Array Power	600 W	900 W	600 W	600 W	900 W		3000 W
MPPT Range @ Operating Voltage	30VDC ~ 86VDC	60VDC ~ 88VDC	30VDC ~ 86VDC	30VDC ~ 86VDC	60VDC ~ 88VDC		60VDC ~115VDC
Maximum PV Array Open Circuit Voltage	75 VDC	102 VDC	75 VDC	75 VDC	102 VDC		145 VDC
Maximum Charging Current	25A	18A	25A	25A	18A		60A
Maximum Efficiency	98%						
Standby Power Consumption	2 W						
PHYSICAL							
Dimension, D x W x H (mm)	128 x 272 x 355					140 x 295 x 540	
Net Weight (kgs)	7.4		7.8	8.0		12.5	13.5
OPERATING ENVIRONMENT							
Humidity	5% to 95% Relative Humidity(Non-condensing)						
Operating Temperature	0°C - 55°C						
Storage Temperature	-15°C - 60°C						

Axpert MKS Plus Inverter Selection Guide

MODEL	Axpert MKS 2K-24 Plus	Axpert MKS 2K-48 Plus	Axpert MKS 3K-24 Plus	Axpert MKS 3K-48 Plus
Rated Power	2000VA/1800W	2000VA/1800W	3000VA/2400W	3000VA/2400W
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 \pm 5 %			
Surge Power	4000VA		6000VA	
Efficiency (Peak)	93 %			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	24 VDC	48 VDC	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	27 VDC	54 VDC
Overcharge Protection	31 VDC	32 VDC	31 VDC	62 VDC
Maximum Charge Current	10 A or 30 A	10 A or 15 A	20 A or 30 A	10 A or 15 A
SOLAR CHARGER				
Maximum PV Array Power	1500 W	3000 W	1500 W	3000 W
MPPT Range @ Operating Voltage	60VDC ~115VDC			
Maximum PV Array Open Circuit Voltage	145 VDC			
Maximum Charging Current	60A			
Maximum Efficiency	93%			
Standby Power Consumption	2 W			
PHYSICAL				
Dimension, D x W x H (mm)	140 x 295 x 479			
Net Weight (kgs)	11.5			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 60°C			