

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 |
| INPUT | | | | | | | |
| 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) | | | | | | |
| OUTPUT | | | | | | | |
| 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 | | | | | | |
| 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 | |
| SOLAR CHARGER & AC CHARGER | | | | | | | |
| 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 | | | | | | |
| PHYSICAL | | | | | | | |
| 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 |
| OPERATING 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

| 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 |
|------------------------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|------------------------|------------------------|
| 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) |