

- Pure sine wave Inverter
- Output power factor 1
- 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 1KVA/2KVA/3KVA/4KVA/5KVA Inverter Specification

| MODEL | Axpert MKS 1K-12 | Axpert MKS 1K-24 | Axpert MKS 1K-48 | Axpert MKS 2K-24 | Axpert MKS 2K-48 | Axpert MKS 3K-24 | Axpert MKS 3K-48 | Axpert MKS 4K | Axpert MKS 5K | Axpert MKS 5K |
|---------------------------------------|--|------------------|------------------|------------------|------------------|------------------------------|------------------|------------------|--|------------------------------|
| 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 |
| 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% | | 93% | |
| Transfer Time | 10 ms (For Personal Computers) 20 ms (For Home Appliances) | | | | | | | | | |
| Waveform | Pure sine wave | | | | | | | | | |
| BATTERY | | | | | | | | | | |
| 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 |
| SOLAR CHARGER & AC CHARGER | | | | | | | | | | |
| Maximum PV Array Power | 500 W | 600 W | 900 W | 600 W | 600 W | 1000 W | 900 W | 4000 W | 2000 W | |
| MPPT Range @ Operating Voltage | 15 VDC ~ 18 VDC | 30 VDC ~ 66 VDC | 60 VDC ~ 88 VDC | 30 VDC ~ 66 VDC | 30 VDC ~ 66 VDC | 30 ~ 80 VDC | 60 VDC ~ 88 VDC | 60 VDC ~ 115 VDC | 30 ~ 115 VDC | |
| Maximum PV Array Open Circuit Voltage | 102 VDC | 75 VDC | 102 VDC | 75 VDC | 75 VDC | 100 VDC | 102 VDC | 145 VDC | 145 VDC | |
| Maximum Solar Charge Current | 40A | 25A | 18 A | 25A | 25A | 40A | 18 A | 80 A | 80A | |
| Maximum AC Charge Current | 20A | 20 A | 15 A | 30 A | 30 A | 60A | 15 A | 60 A | 60A | |
| Maximum Charge Current | 60A | 45A | 33 A | 55 A | 55 A | 100A | 33 A | 140A | 140A | |
| Maximum Efficiency | 98% | | | | | | | | | |
| Standby Power Consumption | 2 W | | | | | | | | | |
| PHYSICAL | | | | | | | | | | |
| Dimension, D X W X H (mm) | 95 x 240 x 316 | 6.8 | | 100 x 272 x 355 | 7.0 | 7.4 | 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 | | | | | | 7.5 | 7.4 | 12.5 | 13.5 |
| OPERATING ENVIRONMENT | | | | | | | | | | |
| Humidity | 5% to 95% Relative Humidity(Non-condensing) | | | | | | | | | |
| Operating Temperature | 0°C to 55°C | | | | | | | | | |
| Storage Temperature | -15°C to 60°C | | | | | | | | | |

*Typical transfer time for parallel operation is 30ms.

Product specifications are subject to change without further notice



Voltronic Power Technology Corp.

Address: 5F, No.151, Xinhui 1st Road, Nethu Dist., Taipei, Taiwan, R.O.C. Website: www.voltronicpower.com
TEL: 886-2-87918296 FAX: 886-2-87918216 E-mail: sales@voltronicpower.com

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