Off-Grid Inverter

# Axpert V Off-Grid Inverter

Axpert VM 1000-12 / Axpert VM 2000-24

Axpert VP 1000-12 / Axpert VP 2000-24/

Axpert VP3000-24 / Axpert VM3000-24

Axpert VM 3000-24 Plus / Axpert VP 5000-48 / Axpert VM 5000-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to AC mains 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
- Optional anti-dusk kit

## Axpert V Off-Grid Inverter Selection Guide

| MODEL | Axpert VP 1000-12 | Axpert VM 1000-12 | Axpert VP 2000-24 | Axpert VM 2000-24 | Axpert VP 3000-24 | Axpert VM 3000-24 | Axpert VM 3000-24 Plus | Axpert VP 5000-48 | Axpert VM 5000-48 |
|---|---|---|---|---|---|---|---|---|---|
| Rated Power | 1000VA/1000W | | 2000VA/2000W | | 3000VA / 3000W | | | 5000VA / 5000W | |
| **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 | | | 10000VA | |
| Efficiency (Peak) | 90% ~ 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 | |
| Floating Charge Voltage | 13.5 VDC | | 27 VDC | | | | | 54 VDC | |
| Overcharge Protection | 16 VDC | | 31 VDC | | 33 VDC | | | 63 VDC | |
| **SOLAR CHARGER & AC CHARGER** | | | | | | | | | |
| Solar Charger type | PWM | MPPT | PWM | MPPT | PWM | MPPT | | PWM | MPPT |
| Maximum PV Array Open Circuit Voltage | 55 VDC | 102 VDC | 80 VDC | 102 VDC | 80 VDC | 102 VDC | 145 VDC | 105 VDC | 145 VDC |
| Maximum PV Array Power | 600 W | 500 W | 1200 W | 1000 W | 1200 W | 1000 W | 1500 W | 2400 W | 3000 W |
| MPP Range @ Operating Voltage | N/A | 17 ~ 80 VDC | N/A | 30 ~ 80 VDC | N/A | 30~80 VDC | 30~115 VDC | N/A | 60 ~ 115 VDC |
| Maxmum Solar Charge Current | 50 A | 40 A | 50 A | 40 A | 50 A | 40 A | 60 A | 50 A | 60 A |
| Maximum AC Charge Current | 20 A | 20 A | 20 A | 25 A | 25A | 25A | 60 A | 60 A | 60 A |
| Maximum Charge Current | 50 A | 60 A | 50 A | 60 A | 70 A | 60 A | 120 A | 110 A | 120 A |
| **PHYSICAL** | | | | | | | | | |
| Dimension, D x W x H (mm) | 88 x 225 x 320 | | | | 100 x 285 x 334 | | 100 x 300 x 440 | 100 x 300 x 440 | |
| Net Weight (kgs) | 4.4 | 4.4 | 5 | 5 | 6.3 | 6.5 | 9.5 | 8.5 | 9.7 |
| Communication Interface | USB/RS232 | | | | | | | | |
| **ENVIRONMENT** | | | | | | | | | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | | | | | | | | |
| Operating Temperature | -10°C to 50°C | | | | | | | | |
| Storage Temperature | -15°C to 60°C | | | | | | | | |

Product specifications are subject to change without further notice.