

# Axpert VM III TRI Off-Grid Inverter



- Dual inputs and three outputs for smart energy management
- Maximum PV input current **40A**
- Built-in Wi-Fi for mobile monitoring and OTA firmware
- Supports USB (Type-C) On-the-Go function for exporting log and firmware upgrade
- Reserved communication port for BMS
- Built-in external CT sensor to guarantee 100% self-consumption
- Battery independent design
- Built-in 120A MPPT solar charger
- Built-in anti-dust kit

## Axpert VM III TRI Off-Grid Inverter Selection Guide

| MODEL                                 | Axpert VM III TRI 4.5K                                                    |  | Axpert VM III TRI 6.5K |  |
|---------------------------------------|---------------------------------------------------------------------------|--|------------------------|--|
| RATED POWER                           | 4500VA/4500W                                                              |  | 6500VA/6500W           |  |
| INPUT                                 |                                                                           |  |                        |  |
| Voltage                               | 230 VAC                                                                   |  |                        |  |
| Selectable Voltage Range              | 170-280 VAC (For Personal Computers)<br>90-280 VAC (For Home Appliances)  |  |                        |  |
| Frequency Range                       | 50 Hz/60 Hz (Auto sensing)                                                |  |                        |  |
| OUTPUT                                |                                                                           |  |                        |  |
| AC Voltage Regulation (Batt. Mode)    | 230VAC ± 5%                                                               |  |                        |  |
| Surge Power                           | 9000VA                                                                    |  | 13000VA                |  |
| Efficiency (Peak)                     | 93%                                                                       |  |                        |  |
| Transfer Time                         | 10 ms (For Personal Computers)<br>20 ms (For Home Appliances)             |  |                        |  |
| Waveform                              | Pure sine wave                                                            |  |                        |  |
| BATTERY                               |                                                                           |  |                        |  |
| Battery Voltage                       | 24 VDC                                                                    |  | 48 VDC                 |  |
| Floating Charge Voltage               | 27 VDC                                                                    |  | 54 VDC                 |  |
| Overcharge Protection                 | 33 VDC                                                                    |  | 63 VDC                 |  |
| SOLAR CHARGER & AC CHARGER            |                                                                           |  |                        |  |
| Solar Charger type                    | MPPT                                                                      |  |                        |  |
| Maximum PV Array Power                | 6500W                                                                     |  | 8500W                  |  |
| MPP Range @ Operating Voltage         | 60 ~ 450 VDC                                                              |  | 60 ~ 450 VDC           |  |
| Maximum PV Array Open Circuit Voltage | 500 VDC                                                                   |  | 500 VDC                |  |
| Maximum PV Input Current              | 40A                                                                       |  |                        |  |
| Maximum Solar Charge Current          | 120A                                                                      |  | 120A                   |  |
| Maximum AC Charge Current             | 120A                                                                      |  | 120A                   |  |
| Maximum Charge Current                | 120A                                                                      |  | 120A                   |  |
| PHYSICAL                              |                                                                           |  |                        |  |
| Dimension, D x W x H (mm)             | 131 x 336 x 435.5                                                         |  |                        |  |
| Net Weight (kgs)                      | 11.8                                                                      |  | 12.8                   |  |
| Communication Interface               | USB/RS232/RS485/WiFi/Dry-contact                                          |  |                        |  |
| OPERATING ENVIRONMENT                 |                                                                           |  |                        |  |
| Humidity                              | 5% to 95% Relative Humidity (Non-condensing)                              |  |                        |  |
| Operating Temperature                 | -10°C to 50°C                                                             |  |                        |  |
| Storage Temperature                   | -15°C to 60°C                                                             |  |                        |  |
| STANDARD                              |                                                                           |  |                        |  |
| Compliance Safety                     | IEC 62109, IEC 61683, EN/IEC 61000-6-2, 61000-6-4, 61000-3-11, 61000-3-12 |  |                        |  |

Product specifications are subject to change without further notice.