

Voltronic Axpert VM III TWIN-PV

The Axpert VM III TWIN-PV inverter by Voltronic Power is engineered for superior energy conversion with its 230 VAC voltage and auto-sensing frequency range of 50/60 Hz. Designed to handle up to 8000VA surge power, it ensures reliable performance in demanding environments.

Models Covered: VM III-4000 TWIN-PV 5600, VM III-6000 TWIN-PV 8000

Manufacturer: Voltronic Power Technology Corp.

Application: Ideal for residential and commercial solar power systems, the Axpert VM III TWIN-PV inverter efficiently manages energy conversion, ensuring stable power supply even during peak loads.

OFF-GRID INVERTER

MAXIMUM PV INPUT CURRENT 40A

Technical Specifications

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Parameter	VM III-4000 TWIN-PV 5600	VM III-6000 TWIN-PV 8000
Input		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC	90-280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Output		
AC Voltage Regulation (Batt. Mode)	230VAC ± 10%	
Surge Power	8000VA	12000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms	20 ms
Waveform	Pure sine wave	
Battery		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
Built-in Charger		
Solar Charger type	MPPT	
Maximum PV Array Power	5600W	8000W
MPP Range @ Operating Voltage	60 – 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	40A	
Maximum Solar Charge Current	120A	
Maximum AC Charge Current	100A	
Maximum Charge Current	120A	
Mechanical Data		
Dimension, D x W x H (mm)	115 x 300 x 435	
Net Weight (kgs)	9	10

Parameter	VM III-4000 TWIN-PV 5600	VM III-6000 TWIN-PV 8000
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact	
Operating Conditions		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	

Note: Specifications are based on the official Voltronic Power datasheet. Values may be subject to change; always verify against the latest manufacturer documentation.

Key Features

- Increased PV power to 5600W and 8000W based on model
- Detachable LCD control module with various communications
- Maximum PV input current 40A
- Dual output for smart load management
- Built-in WiFi for mobile monitoring and OTA firmware upgrade
- Supports USB On-the-Go function
- Built-in BMS communication port
- Built-in meter calibration for optimized system operation

Applications & Use Cases

Typical Applications

- Home solar systems
- Commercial projects
- Industrial applications
- Off-grid systems
- Hybrid systems

Frequently Asked Questions

▼ What are the main performance specifications of the Axpert VM III TWIN-PV inverter?

The Axpert VM III TWIN-PV inverter offers a peak efficiency of 93% and a surge power capacity of 8000VA. It operates at a voltage of 230 VAC with a selectable range of 170-280 VAC and supports both 50 Hz and 60 Hz frequencies.

► Is the Axpert VM III TWIN-PV compatible with different battery types and solar panels?

► What are the physical specifications of the Axpert VM III TWIN-PV inverter?

► What are the installation requirements for the Axpert VM III TWIN-PV inverter?

► What warranty does the Axpert VM III TWIN-PV inverter come with?

► What certifications and standards does the Axpert VM III TWIN-PV inverter meet?

► What are the operating conditions for the Axpert VM III TWIN-PV inverter?

► What are the key features and benefits of the Axpert VM III TWIN-PV inverter?

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Voltronic Power Technology Corp.**. For the latest specifications and updates, visit the manufacturer's website.

- **Manufacturer Website:** voltronicpower.com
- **Technical Support:** support@voltronicpower.com
- **Sales Inquiries:** sales@voltronicpower.org
- **Data Source:** Official Datasheet - Voltronic Power Technology Corp.

***Disclaimer:** All specifications are based on the official datasheet. Specifications are subject to change without notice. Please verify with the manufacturer for the most current information.*

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