

Voltronic Power VOLTRONIC-VM-III-6000-TWIN-PV-8000

Discover the VM III-6000 TWIN-PV 8000 inverter by Voltronic Power with 230 VAC voltage and 12000VA surge power for optimal performance.

Models Covered: VOLTRONIC-VM-III-6000-TWIN-PV-8000

Manufacturer: Voltronic Power Technology Corp.

Application: 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 12000VA surge power, it ensures reliable performance in demanding environments. 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.

Technical Specifications

Parameter	VOLTRONIC-VM-III-6000-TWIN-PV-8000
PV String Input Data	
Max PV Array Power	8000W
Max PV Input Current	40A
MPPT Voltage Range	60 – 450 VDC
Max PV Open-Circuit Voltage	500 VDC
Solar Charger Type	MPPT
Electrical / AC Output Data	
Max Efficiency	93%
Surge / Peak Power	12000VA
Transfer / Switchover Time	20 ms
AC Frequency Range	50/60 Hz (Auto)
Nominal AC Voltage	230 VAC
Output Waveform	Pure sine wave
AC Voltage Regulation (Battery Mode)	230VAC ± 10%
Selectable Voltage Range	90-280 VAC
Battery Data	
Battery Voltage	48 VDC
Max Charge Current	120A
Max Solar / PV Charge Current	120A
Floating / Constant Charge Voltage	54 VDC
Max AC Charge Current	100A
Protection Features	
Overcharge Protection	63 VDC
Mechanical Data	
Dimensions (W×H×D)	300 x 435 x 115 mm

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

Note: Specifications are based on the official Voltronic Power VOLTRONIC-VM-III-6000-TWIN-PV-8000 datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

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.

Key Features & Technical Highlights

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

Frequently Asked Questions

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

Official Source & Documentation

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

manufacturer's website.

- **Manufacturer Website:** www.voltronicpower.com
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Disclaimer: All specifications and technical data presented on this page are based on the official Voltronic Power VOLTRONIC-VM-III-6000-TWIN-PV-8000 datasheet published by Voltronic Power Technology Corp. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation at voltronicpower.com before system design, procurement, or installation. Compliance with local regulations, grid codes (DEWA, ADDC, SEWA) and utility requirements in UAE is the responsibility of the system designer/installer.

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