



Axpert VM III TWIN IP52 Dust & Moisture Resistant Smart Inverter datasheet



• Remote Box Design For Easy Accessibility and Control

Equipped with a detachable LCD remote panel to enable seamless and intuitive operation.



• Dual outputs for smart load management

There are two outputs available. The second output can be scheduled on/off, setting cut-off voltage or SOC and discharging time via LCD setting. It facilitates users smart load control.

• Over-the-Air firmware upgrade-able by APP

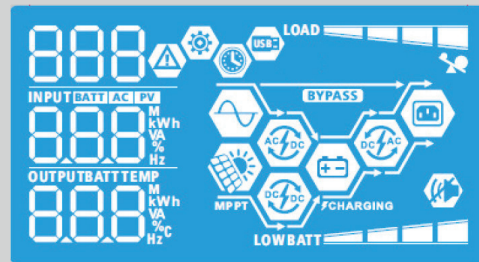
Axpert VM III TWIN IP52 is integrated Wi-Fi interface ready for mobile monitoring. With convenient mobile monitoring and Over-The-Air (OTA) firmware upgrades, users can effortlessly stay connected to their power system, monitor its performance, and seamlessly upgrade to the latest firmware for enhanced functionality and compatibility.



• BMS communication ready

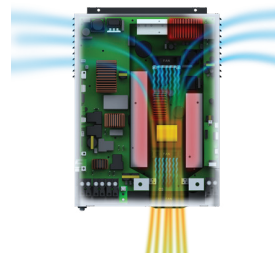
Axpert VM III TWIN IP52 is built-in with BMS communication ports, allowing it to exchange real-time data, optimizing battery charging and discharging, maximizing efficiency, and enhancing safety.

LCD Display Panel



• New thermal ventilation design with reduced noise level

Full-line convection cooling with few fans increases cooling efficiency. Moreover, depending on the temperature, the internal fans can be turned on appropriately to effectively reduce machine noise.

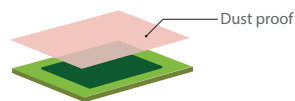


• Powerful Integration, Zero Internal Wiring

Axpert VM III TWIN IP52 combines advanced DSP control with a fully integrated circuit design—no internal wiring required. This innovation simplifies after-sales service time by 80%, delivering unmatched efficiency and reliability.

• Anti-Dust & Anti-Moisture Coating for Long-Lasting Reliability

A protective adhesive layer shields all electronic components from dust & moisture, enhancing durability and ensuring consistent performance over time.



• Ultra-Low No-Load Consumption

Axpert VM III TWIN IP52 cuts no-load current by 50%, lowering energy loss to under 1A for improved efficiency.

• New generation DSP

The new generation of DSPs offers a 50% increase in performance.

• Flexibility for neutral/ground bonding

This feature provides more flexibility to suite diverse applications.

• Optional HMI remote box

An HMI remote box is available as an optional alternative for this series.

Axpert VM III TWIN IP52 Off-Grid Inverter Selection Guide

MODEL	Axpert VM III TWIN IP52 4KW		Axpert VM III TWIN IP52 6KW	
Rated Power	4000VA/4000W		6000VA/6000W	
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	8000VA		12000VA	
Efficiency (Peak)	93%			
Transfer Time	10 ms (For Personal Computers) 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	6000W		9000W	
MPP Range @ Operating Voltage	60 ~ 450 VDC			
Maximum PV Array Open Circuit Voltage	500 VDC			
Maximum PV Input Current	27A		27A	
Maximum Solar Charge Current	120A			
Maximum AC Charge Current	100A			
Maximum Charge Current	120A			
PHYSICAL				
Dimension, D x W x H (mm)	400 x 300 x 115			
Net Weight (kgs)	9		10	
Communication Interface	USB/RS232/RS485/WiFi/Dry-contact			
Ingress Protection	IP52			
OPERATING 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.