



- Pure sine wave solar inverter
- Reserved communication port for BMS
- Wide PV input range
- Battery independent design
- Maximum charging current 100A
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit



## Axpert VM II Premium Off-Grid Inverter Selection Guide

MODEL		Axpert VM II Premium 3K
Rated Power		3000VA/3000W
<b>INPUT</b>		
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)
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)		230VAC ± 5%
Surge Power		6000VA
Efficiency (Peak)		93%
Transfer Time		10 ms (For Personal Computers) ; 20 ms (For Home Appliances)
Waveform		Pure sine wave
<b>BATTERY</b>		
Battery Voltage		24 VDC
Floating Charge Voltage		27 VDC
Overcharge Protection		32 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type		MPPT
Maximum PV Array Open Circuit Voltage		450 VDC
Maximum PV Array Power		3000W
MPP Range @ Operating Voltage		30~400 VDC (30~60VDC with battery connected) 60 - 400 VDC
Maximum Solar Charge Current		100 A
Maximum AC Charge Current		80 A
Maximum Charge Current		100 A
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)		110 x 288 x 390
Net Weight (kgs)		7.2
Communication Interface		RS232/RS485 For Lithium Battery BMS communication
<b>ENVIRONMENT</b>		
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.

**Axpert VM III TWIN Off-Grid Inverter Selection Guide**

MODEL	Axpert VM III TWIN 4K	Axpert VM III TWIN 6K
Rated Power	4000VA/4000W	6000VA/6000W
<b>INPUT</b>		
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)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)	230VAC ± 10%	
Surge Power	8000VA	12000VA
Efficiency (Peak)	90% ~ 93%	
Transfer Time	15 ms (For Personal Computers) 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
<b>BATTERY</b>		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger type	MPPT	
Maximum PV Array Power	5000W	6000W
MPP Range @ Operating Voltage	60 ~ 450 VDC	60 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC
Maximum PV Input Current	27A	
Maximum Solar Charge Current	120A	120A
Maximum AC Charge Current	100A	100A
Maximum Charge Current	120A	120A
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	115 x 300 x 435	
Net Weight (kgs)	9	10
Communication Interface	USB, RS232, RS485, WiFi, Dry-contact	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C to 50°C	
<b>Storage Temperature</b>	-15°C to 60°C	

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- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Built-in current transformer sensor to meet self-consumption application
- Support external BTS (Battery Temperature Sensor) detection
- Built-in power status lighting indicators
- Built-in 2.8" colored LCD with slide operation
- Built-in Wi-Fi for mobile monitoring and OTA firmware upgrade
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Support optional GFCI, Rapid shutdown, AFCI detections
- Supports USB On-the-Go function
- Parallel operation with 6 units



## Axpert Ultra Off-Grid Inverter Selection Guide

MODEL	Axpert Ultra TWIN 8K	Axpert Ultra TWIN 11K
Rated Power	8000VA/8000W	11000VA/11000W
Parallel Capability	YES, 6 units	
<b>INPUT</b>		
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)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	16000VA	22000VA
Efficiency (Peak)	93%	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
<b>BATTERY</b>		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	63 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type	MPPT	
Maximum PV Array Power	10000W (5000W × 2)	12000W (6000W × 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum PV Input Current	27A × 2 (MAX 40A)	
Maximum Solar Charge Current	150A	150A
Maximum AC Charge Current	120A	150A
Maximum Charge Current	150A	150A
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	145 × 438 × 553.6	
Net Weight (kgs)	18.4	
Communication Interface	USB, RS232, RS485, WiFi, Dry-contact, BTS, Support optional GFCI, Rapid shutdown, AFCI detection	
External Current Sensor Port	Yes, built-in current transformer sensor	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-15°C to 60°C	
<b>STANDARD</b>		
Compliance Safety	CE	

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