

# FullCircleSolar Axpert VM II Premium Off-Grid Inverter

Off-Grid Inverter



- Built-in 100A MPP solar charger
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Wide PV input voltage range
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Battery equalization function extends battery lifecycle



MODEL	FCS VM II Premium 3KW	FCS VM II Premium 5KW
Rated Power	3000VA/3000W	5000VA/5000W
<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	10000VA
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	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	32 VDC	63 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger Type	MPPT	
Maximum PV Array Power	3000W	5000W
MPPT Range @ Operating Voltage	60 ~ 400 VDC	120 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	450 VDC	500 VDC
Maximum Solar Charge Current	100 A	100 A
Maximum AC Charge Current	80 A	100 A
Maximum Charge Current	100 A	100 A
<b>PHYSICAL</b>		
Dimension, DxWxH (mm)	110 x 288 x 390	120 x 300 x 440
Net Weight (kgs)	7.2	10
Communication Interface	RS232/RS485, optional Wifi	
<b>ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C - 55°C	
Storage Temperature	-15°C - 60°C	
<b>STANDARD</b>		
Compliance Safety	CE	

Product specifications are subject to change without further notice.