

# FCS AXPERT VP OFF GRID INVERTER



FCS VM 1-12  
FCS VM 2-24

FCS VP 1-12  
FCS VP 2-24

FCS VP 3-24  
FCS VM 3-24

FCS VM 3-24 Plus  
FCS VP 5-48  
FCS VM 5-48

- Pure sine wave solar inverter
- Output power factor 1
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible with mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional anti-dusk kit

## FULLCIRCLESOLAR V OFF-GRID INVERTER SELECTION GUIDE

MODEL	FCS VP 1-12	FCS VM 1-12	FCS VP 2-24	FCS VM 2-24	FCS VP 3-24	FCS VM 3-24	FCS VM 3-24 Plus	FCS VP 5-48	FCS VM 5-48
Rated Power	1000VA/1000W		2000VA/2000W		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	2000VA		4000VA		6000VA		10000VA		
Efficiency (Peak)	90% ~ 93%								
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)								
Waveform	Pure sine wave								
<b>BATTERY</b>									
Battery Voltage	12 VDC		24 VDC		48 VDC				
Floating Charge Voltage	13.5 VDC		27 VDC		54 VDC				
Overcharge Protection	16 VDC		31 VDC		33 VDC		63 VDC		
<b>SOLAR CHARGER &amp; AC CHARGER</b>									
Solar Charger type	PWM	MPPT	PWM	MPPT	PWM	MPPT		PWM	MPPT
Maximum PV Array Open Circuit Voltage	55 VDC	102 VDC	80 VDC	102 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC
Maximum PV Array Power	600 W	500 W	1200 W	1000 W	1200 W	1000 W	1500 W	2400 W	3000 W
MPP Range @ Operating Voltage	N/A	17 ~ 80 VDC	N/A	30 ~ 80 VDC	N/A	30~80 VDC	30~115 VDC	N/A	60 ~ 115 VDC
Maximum Solar Charge Current	50 A	40 A	50 A	40 A	50 A	40 A	60 A	50 A	60 A
Maximum AC Charge Current	20 A	20 A	20 A	25 A	25A	25A	60 A	60 A	60 A
Maximum Charge Current	50 A	60 A	50 A	60 A	70 A	60 A	120 A	110 A	120 A
<b>PHYSICAL</b>									
Dimension, D x W x H (mm)	88 x 225 x 320				100 x 285 x 334		100 x 300 x 440	100 x 300 x 440	
Net Weight (kgs)	4.4	4.4	5	5	6.3	6.5	9.5	8.5	9.7
Communication Interface	USB/RS232								
<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.