

OFF-GRID SOLAR INVERTER

(1KVA - 11KVA)



Parallel Operation
up to 9 units



Intelligent
communication



Built-in solar charger

BENEFITS

- ✓ Pure sine wave output
- ✓ Wide DC input range
- ✓ User-adjustable charging current and voltage
- ✓ smart battery charger design for optimized battery performance
- ✓ Monitoring software for real-time status display and control
- ✓ Configurable AC/Solar input priority via LCD setting
- ✓ Parallel operation up to 9 units only for 3K/4K/5K models

APPLICATION



Air cooler



Washing machine



Micro-oven



Vacuum cleaner



Control center

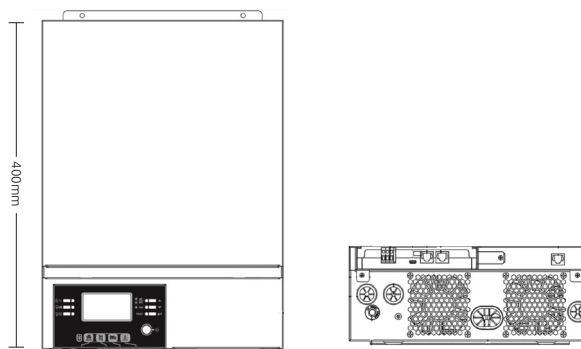


Dishwasher



AC-2.5 Ton

SCHEMATIC



Pure sine wave output



Technology increases
battery lifetime



Smart battery charger
design for optimized battery
performance



AC/solar charger priority

SPECIFICATION

UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES

MODEL NUMBER	FA-OFFINV-24V-1000VA	FA-OFFINV-24V-1500VA	FA-OFFINV-24V-2000VA	FA-OFFINV-24V-3000VA	FA-OFFINV-24V-4000VA	FA-OFFINV-48V-5000VA	FA-OFFINV-48V-6000VA
RATED POWER	1000W	1500W	2000W	3000W	4000W	5000W	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)	230 VAC ± 5%		230 VAC ± 10%		230 VAC ± 5%	230 VAC ± 10%	
Surge Power	2000VA	3000VA	4000A	6000VA	8000VA	10000VA	12000VA
Efficiency (Peak)	90%~93%						
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)						
Waveform	Pure sine wave						
BATTERY							
Battery Voltage	12 VDC	24 VDC	24 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	27 VDC	27 VDC	54 VDC	54 VDC	54 VDC
Overcharge Protection	16 VDC	33 VDC	31 VDC	33 VDC	60 VDC	63 VDC	63 VDC
SOLAR CHARGER & AC CHARGER							
Solar Charger Type	MPPT						
Max. PV Array Power	600W	2000 W	1200W		2400 W		6000 W
Max. PV Array Open Circuit Voltage	400VDC	400VDC	400VDC	500 VDC	500 VDC	500 VDC	500 VDC
MPP Range @operating Voltage	120 ~ 380 VDC		120 ~ 450 VDC				
Max. Solar Charge Current	50 A	60 A	50 A	50 A	50 A	60 A	120 A
Max. AC Charge Current	20 A	40 A	25 A	25 A	60 A	60 A	100 A
Max. Charge Current	50 A	60 A	57 A	57 A	110 A	120 A	120 A
PHYSICAL							
Dimension, D x W x H (mm)	88 x 225x 320	100 x 280 x 390	88 x 225x 320	100 x 285 x 334	155 x 295 x 455	100 x 300 x 440	
Net Weight (kgs)	5.5	8.5	5.5	6.3	9.5	9	10
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact						
Humidity	5% to 95% Relative Humidity (Non-condensing)						
Operating Temperature	-10°C to 50°C						
Storage Temperature	-15°C to 60°C						

FEATURES



Compatible with mains voltage or generator power



Technology protects against low battery power



Cold start function



Automatic load sharing on AC and DC output

SOLAR SOLUTION

MODEL NUMBER	FA-OFFINV-24V-8000VA	FA-OFFINV-24V-10000VA	FA-OFFINV-24V-11000VA
RATED POWER	8000VA/8000W	10000VA/10000W	11000VA/11000W
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)	230 VAC ± 5%		
Surge Power	16000VA	20000VA	22000VA
Efficiency (Peak)	90%~93%		93%
Transfer Time	15 ms (For Personal Computers) ; 20 ms (For Home Appliances)		10 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure sine wave		
BATTERY			
Battery Voltage	48VDC		
Floating Charge Voltage	54 VDC		
Overcharge Protection	66VDC		
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT		
Max. PV Array Power	8000W (4000W x 2)	10000W (5000W x 2)	11000W
Max. PV Array Open Circuit Voltage	500 VDC		
MPP Range @operating Voltage	90 ~ 450 VDC		
Max. Solar Charge Current	120A	150 A	
Max. AC Charge Current	120A	150 A	
Max. Charge Current	120A	150 A	
PHYSICAL			
Dimension, D x W x H (mm)	147.4 x 432.5 x 553.6	158.4 x 503.6 x 530.8	147.4 x 432.5 x 553.6
Net Weight (kgs)	18.4	20	18.4
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C to 50°C		
Storage Temperature	-15°C to 60°C		

UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES



Technology protects
against short circuit



Technology protects
against overload



Technology protects
against reverse polarity



Inverter, AC/DC
charger or PV charger

SOLAR SOLUTION