

1PH HYBRID SOLAR INVERTER

(1000VA - 6000VA)



Parallel Operation
up to 9 units



Self-consumption and
feed-in to the grid



Programmable supply
priority for PV, Battery

BENEFITS

- ✓ Pure sine wave output
- ✓ Self-consumption and feed-in to the grid
- ✓ Programmable supply priority for PV, Battery or Grid
- ✓ User-adjustable charging current and voltage
- ✓ Programmable multiple operation modes: Grid-tie (with battery connected), off-grid and grid-tie with backup
- ✓ Monitoring software for real-time status display and control
- ✓ Parallel operation up to 9 units only for 3K/4K/5K models

APPLICATION



Laser printer



Air cooler



Washing machine



Refrigerator



Micro-oven



Server

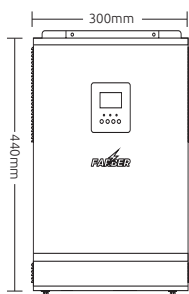


Vacuum cleaner

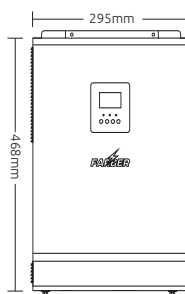


AC-1.5 Ton

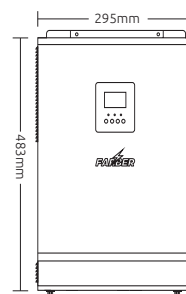
SCHEMATIC



(1KVA & 2KVA)



(3KVA & 4KVA)



(5KVA)

FEATURES



Pure sine wave output



Bi-direction concept



Separated to operate in
different operation modes



Automatic load sharing
on AC and DC output

SPECIFICATION

MODEL NUMBER	FA-HINV-12V-1000VA	FA-HINV-24V-2000VA	FA-HINV48V-3000VA	FA-HINV-48V-4000VA	FA-HINV-48V-5000VA	FA-HINV-48V-6000VA
Max. PV Array Power	1000W	2000W	4000W	4000W	6000W	6000W
Rated Output Power	1000W	2000W	3000W	4000W	5000W	6000W
Maximum PV Array Open Circuit Voltage	145 VDC					
MPPT Range @ Operating Voltage	15 VDC - 115 VDC	30 VDC - 115 VDC		60 VDC - 115 VDC		
MPP Tracker Number		1			2	
GRID OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Voltage Range	184-264.5 VAC or 195-253 VAC (Selectable)					
Nominal Output Current	4.3A	8.7A	13A	17.4A	21.7A	26A
Power Factor	> 0.99					
Maximum Conversion Efficiency (DC/AC)	90%			95%		
GRID INPUT						
Acceptable Input Voltage Range	170-280 VAC					
Frequency Range	50Hz/60Hz (Auto sensing)					
Maximum AC Input Current	30A			40A		
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	220/230/240 VAC					
Output Waveform	Pure sine wave					
Efficiency (DC to AC)	93%					
Nominal DC Voltage	12 VDC	24 VDC		48 VDC		
Maximum Solar Charge Current		80A		120A		
Maximum AC Charge Current		60A		60A		
Maximum Charge Current		140A		180A		
GENERAL						
Dimension, D x W x H (mm)	100 X 300 x 440	120 X 295 x 468	120 X 295 x 468	190 X 295 x 483	140 x 365 x 468	
Net Weight (kgs)	8		11	16	14	
Parallel Function		N/A		Up to 9 Unit		
External Safety Box (Optional)	Yes					
Communication Ports	Yes					
ENVIRONMENT	USB or RS232/Dry-Contact					
Humidity	0-90% RH (Non-condensing)					
Operating Temperature	0 to 50°C					

UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES

SOLAR SOLUTION



Inverter, AC/DC
charger or PV charger



Technology protects against short
circuit



Technology for instant change-
over between power and battery
and vice-versa



Technology protects against
reverse polarity