

SINGLE PHASE HYBRID INVERTER



- Parallel operation up to 6 units
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid

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 6 units only for 3K/4K/5K models

APPLICATION



Laser printer
600 VA



Air cooler
750 VA



Washing machine
1000 VA



Refrigerator
1250 VA



Micro-oven
1250 VA



Server
1800 VA

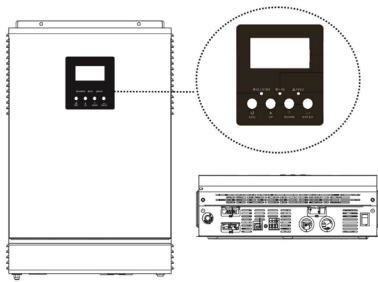


Vacuum cleaner
2000 VA

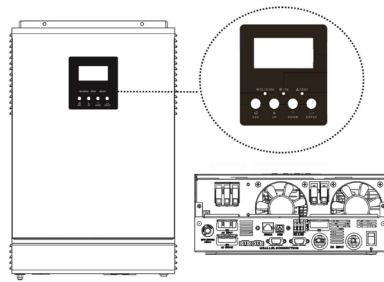


AC-1.5 Ton
3500 VA

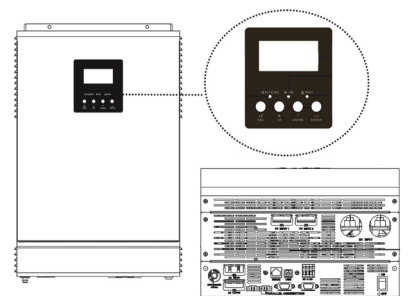
SCHEMATIC



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
Max. PV Array Power	1000W	2000W	4000W	4000W	6000W
Rated Output Power	1000W		3000W	4000W	5000W
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
Power Factor	> 0.99				
Maximum Conversion Efficiency (DC/AC)	90%				
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
Net Weight (kgs)	8		11		16
Parallel Function	N/A				
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				



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