



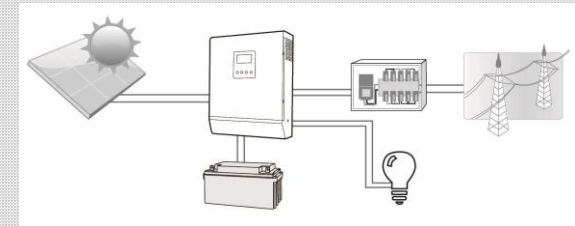
- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with back
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units only for 3K/4K/5K models



FCS INIFINISOLAR V 1K/2K/3K/4K/5K ON-GRID INVERTER WITH ENERGY STORAGE

MODEL	FCS InifinSolar V-5K-48 4000W
Max. PV Array Power	4000W
Rated Output Power	4000W
Maximum PV Array Open Circuit Voltage	145 VDC
MPPT Range @ Operating Voltage	60 VDC ~ 115 VDC
Number of MPP Tracker	1
GRID-TIE OPERATION	
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC
Nominal Output Current	17.4A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	90%
OFF-GRID, HYBRID OPERATION	
GRID INPUT	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
Maximum AC Input Current	
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Solar Charge Current	80 A
Maximum AC Charge Current	60 A
Maximum Charge Current	140 A
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	120 x 295 x 468
Net Weight (kgs)	11
INTERFACE	
Parallel Function	Yes
External Safety Box (Optional)	
Communication	USB or RS-232/Dry Contact
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	0 to 50°C

This hybrid PV inverter can provide power to connected loads by utilizing PV power, utility power and battery power.



Depending on different power situations, this hybrid inverter is designed to generate continuous power from PV solar modules (solar panels), battery, and the utility. When MPP input voltage of PV modules is within acceptable range (see specification for the details), this inverter is able to generate power to feed the grid (utility) and charge battery. Galvanic isolation designed between PV/DC and AC output, so that user could connect any type of PV array to this Hybrid inverter. See Figure for a simple diagram of a typical solar system with this hybrid inverter



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