Felicitysolar®

Make life full of hope



6KVA

Off-grid High-frequency Solar Inverter

AC-220V

IVEM6048-II

Features

- Supports up to 12 units in parallel (6KVA model) (Battery must be connected).
- Support parameters setting via LCD screen (input voltage/charging current/charge mode).
- Compatible with mains voltage or generator power.
- Built-in MPPT solar charge controller.
- Lithium battery activation function.
- Auto restart while AC is recovering.
- Inverter running without battery.
- Cold start function.
- Built-in WiFi for mobile monitoring, APP is required

The generator input port of IVEM6048-II that can be converted into a smart output port, allowing users to customize the output duration.（under stand-alone mode)

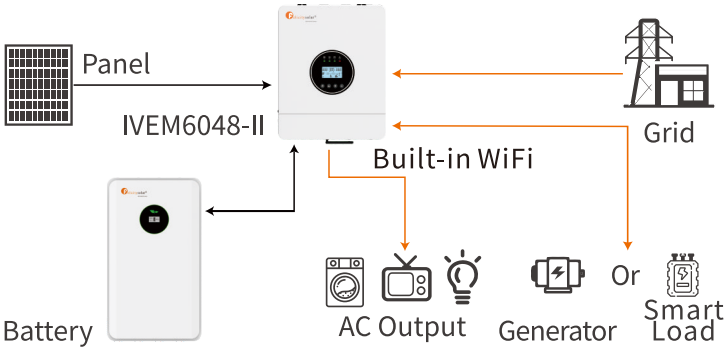
System Configuration

DC

AC

Communication





Guangzhou Felicity Solar Technology Co.,Ltd.

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No. 2, Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, China **(Only 10 Mins from Baiyun Airport)**

Official Website

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Model	IVEM6048	IVEM6048-II
Line Mode Specifications		
Rated Output Power(VA)	6000VA	
Rated Output Power(W)	6000W	
Nominal DC Input Voltage	48V	
Nominal Input Voltage	230Vac	
Max. AC Input Voltage	280Vac	
Nominal Input Frequency	50Hz / 60Hz (Auto detection)	
Efficiency(Line Mode)	>95% (Rated R Load, Battery Full Charged)	
Pass Through Without Battery	Yes	
Utility Charge Mode Specifications		
Input Voltage Range	90~280Vac	
Max. Charge Current	100A	120A
Over Charge Protection	Yes	
Solar Charging & Grid Charging		
Max.PV Open Circuit Voltage	500V	
PV Voltage Working Range	90V-450V	
Max. Input Power	7000W	7500W
Max. Solar Charging Current	120A	
Max. Charging Current(PV+Grid)	120A	
Max. Input Current	27A	
Min. Startup Voltage	95V	
Inverter Mode Specifications		
Output Voltage Waveform	Pure Sine Wave	
Nominal Output Voltage	230Vac±5%	
Nominal Output Frequency(Hz)	50±0.3Hz/60Hz±0.3Hz(Adjustable)	
Parallel Capability	Yes, Up to 12 Units	
Peak Efficiency	93%	
Over-Load Protection(SMPS load)	5s@≥150% load; 10s @105% ~150% load	Load>200%,200ms / Load >150%,5.5s Load >120%,7.5s / Load >105% 10.5s
Surge Rating	2* Rated Power for 5s	
Capable of Starting Electric	Yes	
Output Short Circuit Protection	Yes	
General Specifications		
Operating Temperature	-10°C~50°C	
Range Storage Temperature	-15°C~60°C	
Net Weight(KG)	11.5KG	12.5KG
Product Dimension(MM)	420*335*142MM	
Package Dimension(MM)	512*417*216MM	
Certification	CE-EMC、IEC 62109-1/2、IEC 63027	

*Refer to Felicitysolar's Warranty Policy for applicable conditions.

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