

# 12KVA

## Off-grid High-frequency Solar Inverter

**AC-230V**

### Features

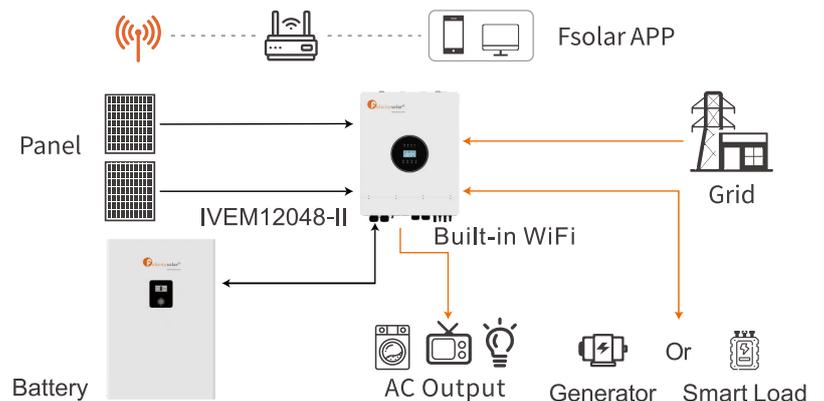
- Supports up to 6 units in parallel (Battery must be connected).
- Built-in MPPT solar charge controller with 2 strings of solar input.
- Built-in Wi-Fi for mobile monitoring (APP is required).
- Overload/ over temperature/ short circuit protection.
- Lithium battery activation function.
- Configurable parameters setting (input voltage/charging current / charge mode).
- Supports generator input port reconfiguration to smart output port with customizable duration.
- Compatible to mains voltage or generator power.
- Auto restart while AC is recovering.
- Inverter running without battery.
- Cold start function.



**IVEM12048-II**

### System Configuration

- DC
- AC
- Communication



Model	IVEM12048-II
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### Line Mode Specifications

Rated Output Power(VA)	12000VA
Rated Output Power(W)	12000W
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	230Vac
Over Charge Protection	90-280Vac
Max. Charge Current	240A
Charge Current Regulation	10-240A (Adjustable Unit is 1A)
Over Charge Protection	Yes

### Solar Charging & Grid Charging

Max.PV Open Circuit Voltage	500V
PV Voltage Working Range	90V-450V
Max. Input Power	15000W(7500W for Single PV)
Max. Solar Charging Current	240A
Max. Charging Current(PV+Grid)	240A
Max. Input Current	27A X 2(MAX 54A)
Min. Startup Voltage	100V

### 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 6 units
Peak Efficiency	94.5%
Over-Load Protection(SMPS load)	5s@≥150% load; 10s @105% ~150% load
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)	26.8KG
Product Dimension(MM)	634*476*141MM
Package Dimension(MM)	726*594*258MM

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

