

# 6KVA

## Off-grid High-frequency Solar Inverter

**AC-220V**

### 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



**IVEM6048-II**

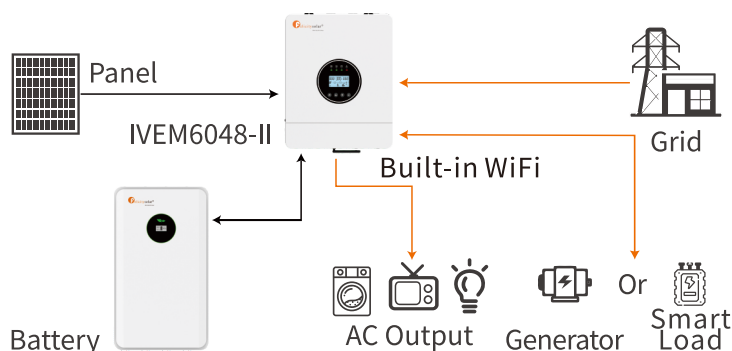
The generator input port of IVEM6048-II that can be converted into a smart output port, allowing users to customize the output duration. (under stand-alone mode)

### System Configuration

■ DC

■ AC

--- Communication



| 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<br>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.

