

## Residential Series



### ALL-IN-ONE (OFF-GRID)

(Customizable Solution)



INV-OGS-0505

INV-OGS-0510

INV-OGS-0515

## Key Features:

-  Easily Moving
-  Fast Charging
-  Easy Installation (Plug & Play)
-  Supports 15 Parallel Connections



 Toll Free NO. 1800 309 7880

 [www.invergypowersupply.com](http://www.invergypowersupply.com)

 Image may differ from the actual product.

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| MODEL                             |                                | INV-OGS-0505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INV-OGS-0510 | INV-OGS-0515 |
|-----------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| AC Output                         | AC Input System                | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |
|                                   | Rated Input Voltage            | 220/230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |
|                                   | Output System                  | L+N+PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |
|                                   | Output Voltage                 | 220/230VAC±5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |              |
|                                   | Output Frequency               | 50/60Hz±0.1%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |
|                                   | Power Factor                   | 0.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |
|                                   | Wave Form                      | Pure Sine Wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |
|                                   | Switching Period               | 10ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
|                                   | Transfer Efficiency            | ≥95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
|                                   | Power Rating                   | 5kva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
|                                   | Peak Power                     | 10kva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |
|                                   | Battery Pack                   | 5 kWh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10 kWh       | 15 kWh       |
| Battery                           | Battery Pack Specifications    | 51.2 V 100 Ah                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |              |
|                                   | Rated Operational Voltage      | 51.2 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |
|                                   | Charging Cut-Off Voltage       | 58.4 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |
|                                   | Discharge Cut-Off Voltage      | 44.0 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |
|                                   | Maximum Battery Number Allowed | 16 PCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |
|                                   | Rated Operational Current      | 200 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |
|                                   | Peak Discharge Current         | 250 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |              |
| Charge                            | PV Charging Method             | MPPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
|                                   | PV Maximum Input Power         | 5500wp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |
|                                   | MPPT Tracking Range            | 120~450 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |              |
|                                   | Maximum PV Input Voltage       | 500 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |              |
|                                   | Maximum PV Charging Current    | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 80           | 100          |
|                                   | Maximum Mains Charging Current | 60 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
| Display                           | LCD display                    | 4.0-inch LCD / 4 button                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |              |
|                                   | Communication Protocol         | RS485/CAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |
|                                   | AC Input/Output                | Ac230 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |              |
| Environmental Parameter           | Operating Ambient Temperature  | 0oC~40oC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |
|                                   | Operating Environment Humidity | 20%~95% (no condensation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |
|                                   | Storage Temperature            | -15oC~60oC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |
|                                   | Above Sea Level                | The altitude shall not exceed 1000m, over 1000m, output less, altitude maximum 4000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |
|                                   | Noise                          | ≤50 db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |
| Physical Parameters               | Length*Width*Height (mm)       | 580×260×1320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |
|                                   | Weight (for the reference)     | 150 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 90 kg        | 208 kg       |
|                                   | Certification                  | IEC 61000-3-3 2013+AMD1 2017+AMD2 2021, IEC 61000-3-22018+AMD1 2020+AMD2 2024, IEC 61000-6-1 2019 IEC 61000-4-2 2008, IEC 61000-6-3 2020, IEC 62619 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |
| Application Environment And Value |                                | <p>The system application scenario of the product is shown in the following figure. A complete system consists of the following parts: Photovoltaic modules: convert the light energy into direct current, charge the battery through the reverse control all-in-one machine, or directly reverse into an AC drive load.- Mains or generator: connected to the AC input to charge the battery while supplying power to the load. If the power supply or generator is not connected, the system can also operate properly, and the load is powered by the battery and the solar module.- Battery: used to ensure the normal power supply of the system load when the solar energy is insufficient and the mains power is not connected.- Home load: can connect a variety of home and office loads, including refrigerators, lamps, TV, fans and air conditioning.- Inverse control all-in-one machine: the energy conversion equipment of the whole system.</p>                                                                                                                                                                                                                                                                                                                                                                                                  |              |              |
| Functional Characteristics        |                                | <p>-Fully digital voltage and current double closed-loop control, advanced sinusoidal pulse width modulation technology, output pure sinusoidal wave.-Two output modes: mains power bypass and inverter output, uninterrupted function.-Four charging modes are available: hybrid charging with only solar energy, mains power priority, solar energy priority and mains power solar energy.- Advanced maximum power point tracking technology, with an efficiency of 99.9%.-Have an LCD screen and 3 indicators design to dynamically display the system data and running status. With the lamp self-lock type switch control AC output.-The power-saving mode can be used to reduce the power loss.- Intelligent variable speed fan efficient heat dissipation, prolong the system life.- Lithium battery is activated by photovoltaic solar energy or mains power, and charge the lithium battery in two ways.- 360° comprehensive protection, a number of protection functions, including short circuit protection, over voltage, under voltage protection, overload protection, reverse connection protection, etc- Lithium iron phosphate battery, high energy density and power density, good safety performance.-The battery pack is separated from the inverter, which can use multiple battery packs in parallel to facilitate capacity expansion.</p> |              |              |