

## 5.5 KW High frequency Inverter

### GPHi5.5KW#48VPVT

#### Features:

- Higher solar charging efficiency and battery protection
- Output power factor PF=1
- lithium battery activation start function with ac and solar mode
- Parallel operation up to 9 units
- High frequency inverter, lighter weight with higher efficiency
- Pure sine wave output, adaptable to different loads
- Optional WIFI function
- Working with or without battery
- On/off grid hybrid inverter
- 500V high PV input



### Technical Specifications

| Model                    |                                              | GPHi5.5KW#48VPVT                                                                                    |
|--------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Input                    | Phase                                        | L+N+PE                                                                                              |
|                          | Nominal Voltage                              | 208/220/230/240VAC                                                                                  |
|                          | Voltage Range                                | 90-280VAC±3V (APL Mode) 170-280VAC±3V (UPS Mode)                                                    |
|                          | Frequency Range                              | 50Hz/60Hz(Adaptive)                                                                                 |
| Output                   | Rated Power                                  | 5500W                                                                                               |
|                          | Output Voltage(AC)                           | 208/220/230/240VAC±5%                                                                               |
|                          | Output Frequency                             | 50/60Hz±0.1%                                                                                        |
|                          | Waveform                                     | Pure sine wave                                                                                      |
|                          | Transfer Time( Optional)                     | 10ms for computer , 20ms for home appliances                                                        |
|                          | Peak power                                   | 11000VA                                                                                             |
|                          | Overload                                     | Battery Mode:<br>1min@102%~110% Load<br>10s@110%~130% Load<br>3s@130%~150% Load<br>200ms@>150% Load |
| charger                  | Peak efficiency (battery mode)               | >94%                                                                                                |
|                          | PV charging method                           | MPPT                                                                                                |
|                          | PV max input power                           | 5500W                                                                                               |
|                          | MPPT tracking range                          | 120~500Vdc                                                                                          |
|                          | Max PV input voltage                         | 500Vdc                                                                                              |
|                          | Max PV charging current                      | 100A                                                                                                |
|                          | Max AC charging current                      | 60A                                                                                                 |
| Battery                  | Max charging current                         | 100A                                                                                                |
|                          | Rated voltage                                | 48Vdc                                                                                               |
|                          | Constant voltage charging voltage (Optional) | 56.4Vdc                                                                                             |
| Display                  | Floating charge voltage (Optional)           | 54Vdc                                                                                               |
|                          | LCD display                                  | Operating mode/load/input/output, etc.                                                              |
| Communication port       | RS232                                        | 5PIN/Pitch2.0mm, baud rate 2400                                                                     |
|                          | Expansion & configuration port               | 2×5PIN/Pitch2.54mm, lithium battery BMS communication card, WIFI card, dry contact card, etc.       |
|                          | Parallel interface                           | Optional                                                                                            |
| Environmental parameters | Operating environment temperature            | 0~40°C                                                                                              |
|                          | Operating environment humidity               | 20%~95% (Non condensing)                                                                            |
|                          | Storage temperature                          | -15~60°C                                                                                            |
|                          | Altitude                                     | The altitude should not exceed 1000m, derating above 1000m, up to 4000m, refer to IEC62040          |
|                          | noise                                        | ≤50db                                                                                               |