**High Frequency On Grid Solar Inverter**

**PH5000T Series (7KW-15KW)**

### Features

- Wide input voltage range from 160V-1000Vdc
- IP65 protection degree
- Integrated DC switch
- DSP controller
- The maximum efficiency is 98.3%
- Multi-MPP controller
- WiFi monitoring standard;
- Easy installation

### Introduction

It is used to convert the DC generated by photovoltaic panels into AC and send it to the grid in a three-phase manner.

### Back panel printing description

1. Operation normal (Green)
2. WIFI communication (Blue)
3. Error display (Red)
4. PV input
5. DC switch
6. WIFI connector
7. RS232
8. RS485
9. AC output

### Solar system connection

![Solar system connection diagram](image)

#### Output (AC)

- Rated AC output power: PH507000T-10000W, PH5011000W-13000W, PH5015000W-16000W
- Max.AC apparent power: 7700VA-9600VA, 11000VA-12000VA, 13200VA-14200VA
- Max.output current: 11.5A-17.5A, 14.3A-20.6A
- Nominal AC Voltage: 230V/400V
- AC Voltage range: 184Vac-300Vac
- AC grid frequency range: 50±5Hz, 60±5Hz
- Power factor at Rated power: 0.8 leading...
- THDv @ Full load: <1%
- Power factor: 1
- Easy installation

#### Input Data

- Max.DC voltage: 1000V
- Start voltage: 160V
- PV voltage range: 160V-1000V
- MPP voltage range: 200V-1000V
- Max.input current: 12.5A, 20A
- Number of independent MPP trackers / strings per MPP tracker: 2/1, 2/2+1
- DC connection: H4/M4

#### EFFICIENCY

- Max.efficiency: 98.3%
- Euro weighted effciency: 97.8%, 98%
- MPPT efficiency: 99.9%
- Protection devices: DC reverse polarity protection, Output over current protection, Output overvoltage protection, Ground fault monitoring, Integrated all-pole sensitive leakage current monitoring unit

#### Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PH50-1000T</th>
<th>PH50-9000T</th>
<th>PH50-11000T</th>
<th>PH50-12000T</th>
<th>PH50-13000T</th>
<th>PH50-15000T</th>
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</thead>
<tbody>
<tr>
<td>Rated AC output power</td>
<td>7000W</td>
<td>9000W</td>
<td>10000W</td>
<td>11000W</td>
<td>12000W</td>
<td>13000W</td>
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<tr>
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<td>11.5A</td>
<td>12.7A</td>
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<td>15.9A</td>
<td>17.5A</td>
<td>19A</td>
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<td>THDv @ Full load: &lt;1%</td>
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<tr>
<td>AC grid frequency range</td>
<td>50±5Hz</td>
<td>60±5Hz</td>
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<td>PLL controller</td>
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</tbody>
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#### General Data

- Dimension(W/H/D)(mm): 500*428*200
- Weight (kg): 22, 24
- Operation temperature range: -25°C to 60°C with derating above 40°C
- Altitude: 3000m
- Self-consumption night: < 1W
- Topology: Transformerless
- Cooling concept: Natural
- Environmental protection Rating: IP65
- Relative humidity: 100%
- AC connection: connector
- Display: LED
- Interfase: USB/WIFI/GPRS/RS485
- Warranty: Standard 5 years, Optional 10 years
- CE/IEC62109, TUV, PSE, CQC, TUV, CEC, BIS

#### Features

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- Display: LED
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