



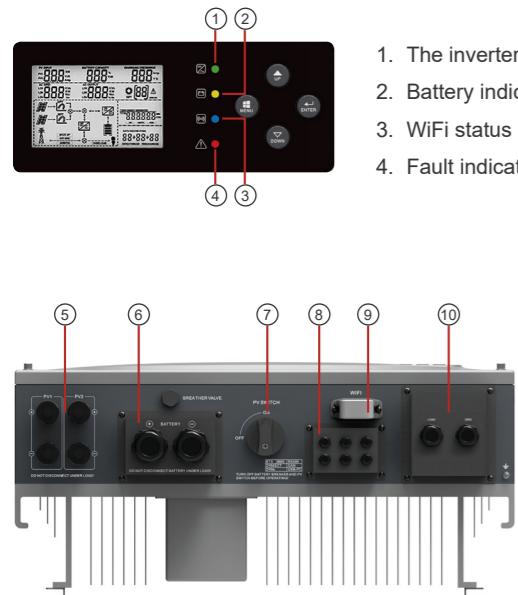
### Features

- Wide range of MPPT voltage:120-550V
- Multiple operation modes: Grid-tie, off grid and grid-tie with back up
- Support LCD display & Smart LCD setting
- Available Export control CT sensor function
- Multiple communications: USB, RS485, GPRS and WiFi etc
- Monitoring inverters freely via computers or mobile phones
- Full protection function: Over-voltage, over-frequency, over-current, over-temperature, and AC short-circuit automatic protection
- Intelligent BMS battery management function
- Fanless low-noise design
- IP65 Dust-proof and water-proof

### Introduction

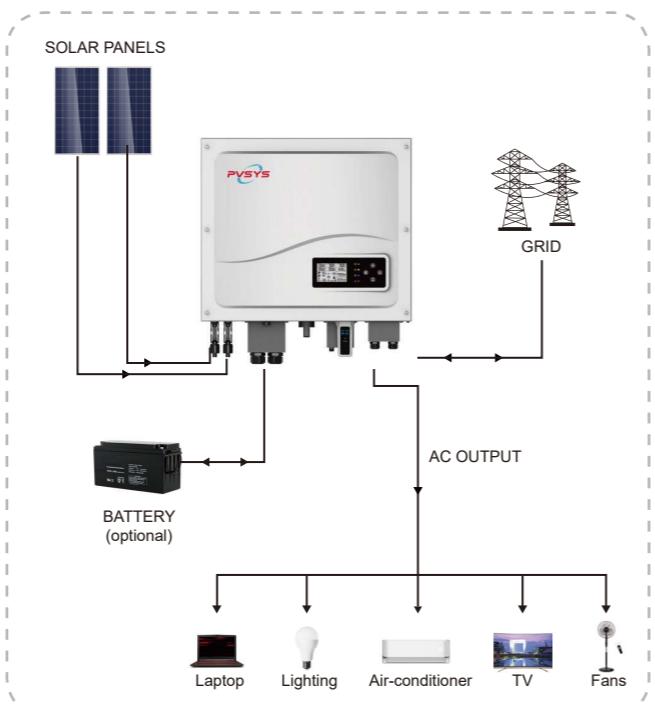
This is a flexible and intelligent energy storage solar inverter with a wide range of MPPT Voltage. Combining functions of off grid and on grid. This hybrid solar inverter can power all kinds of appliances in home or office, and can also be used in power stations.

### Back panel printing description



- The inverter operation status indicator
- Battery indicator
- WiFi status indicator
- Fault indicator
- PV input terminals
- Battery input terminals and cover
- PV input switch
- BTS terminals, BMS terminals, load monitor terminals, dry contact terminals, CAN communication terminals, USB terminal and cover
- Wi-Fi module
- AC output terminals and cover

### Solar system connection



### Specification

| MODEL                          | PH10-5048PRO   |
|--------------------------------|--|
| RATED POWER(W)                 | 5000   |
| Nominal Battery System Voltage | 48   |
| PV INPUT(DC)                   | Maximum recommended DC power(W) 7000<br>Nominal DC operating voltage(V) 360<br>Maximum DC voltage(V) 550<br>MPPT voltage range(V) 120~550<br>Maximum input current(A) 13 / 13<br>Maximum short circuit current(A) 15 / 15<br>No.of MPP tracker 2<br>Strings per MPP tracker 1  |
| INVERTER OUTPUT(AC)            | Nominal AC output power(W) 5000<br>Nominal output voltage(V);range(V) 220/230/240;180-280<br>AC grid frequency(Hz);range(Hz) 50/60;45~55/55-65<br>Nominal output current(A) 21.8<br>Maximum output current(A) 22.8<br>Total harmonic distortion i(THDi) <3%<br>Power factor at rated power 1<br>Displacement power factor 0.8leading ~ 0.8lagging                                  |
| BATTERY MODE OUTPUT(AC)        | Output Rated Power 3680<br>Nominal output voltage(V);accuracy range 230±1%<br>Output frequency(Hz);accuracy range 50/60(optional)±0.2%<br>Output rated current(A) 15<br>Output waveform Pure sine wave<br>Total harmonic distortion v (linear load) <3%  |
| BATTERY & CHARGER              | Battery type Lead-acid battery / Lithium battery<br>Battery voltage(V) 48<br>Battery voltage range(V) 40~60<br>Charging curve 3-stage adaptive with maintenance<br>Over-current protection / Over-temperature protection Yes / Yes<br>Maximum charging/discharging power(W) 4000<br>Maximum charging/discharging current(A) 80 / 80  |
| EFFICIENCY                     | Maximum efficiency 97.3%<br>Euro-efficiency 96.8%<br>MPPT efficiency 99.9%   |
| PROTECTION DEVICES             | DC switch rating for each MPPT Yes<br>Grid monitoring Yes<br>Output over current protection Yes<br>Output overvoltage protection-varistor Yes<br>Ground fault monitoring Yes<br>Integrated all-pole sensitive leakage current Yes  |
| GENERAL                        | Dimension(W/H/D)(mm) 480*420*215<br>Net weight (kg) 27<br>DC connection H4 / MC4<br>AC connection Terminal Block<br>Display LED+LCD<br>Communication interfaces Wi-Fi / USB / GPRS / RS485<br>Ingress protection rating IP65<br>Humidity 0~95% RH(No condensing)<br>Operating temperature range -20°C +60°C With derating above 45°C<br>Cooling concept Natural<br>Altitude <3000m |

The technical specifications of this document are subject to change without any notice