

Solartech PB Series Solar Pumping Inverters

Product Introduction

Solartech PB Series Solar Pumping Inverter controls and regulates the operation of solar pumping system. It drives the pump by converting DC power produced by solar array into AC power and adjusts the output frequency according to solar radiation in real time to implement maximum power point tracking (MPPT).



Product Features

Higher Efficiency

- Produced by world's earliest professional solar pumping inverter manufacturer, 10 years designed life and the longest 3 years warranty in industry;
- Widely applied in over 110 countries and areas, high durability, good reputation, CE Certified;
- Compatible with submersible pumps, surface pumps, swimming pool pumps and other pumps using three-phase asynchronous motors;
- Patented dynamic VI maximum power tracking (MPPT) algorithm, fast response, good stability and 99% MPPT efficiency;
- High reliability due to the uses of intelligent power modules (IPM) in main circuit, up to 98% conversion efficiency of the inverter;

Safe

- Supporting soft start of pump, full motor protections, optional water level switch to prevent overflow and dry running;
- Full aluminum alloy shell with IP52 protection grade, ambient temperature: -10°C~+50°C, ambient humidity ≤95%;
- Full protections including overvoltage protection, undervoltage protection, overcurrent protection, overload protection, overheat protection, etc;
- Solar combiner function for PB750L – PB18KH, which supports multiple DC input strings and each string is equipped with anti-reverse circuit;

Convenient

- Full automatic operation, free setting of the operation frequency range of pump according to system conditions, 8 years storage capacity for operation data;
- Intelligent recognition of input voltage, automatic operation without manual setting of voltage parameters;
- Optional Solar Pumping Control Box, which supports grid/diesel backup power supply to satisfy all-weather 24 hours operation demand;
- Optional advanced functions: encryption for installment payment, DM Series Data Monitors for GRPS remote monitoring & Bluetooth near field monitoring;

Brand History

- In 2001, Solartech invented solar pumping system;
- In 2008, Solartech built the world's first professional full series solar pumping inverter manufacturing factory;
- In 2011, Solartech solar pumping products entered Chinese Key Promotion Guidance Catalog of Advanced Water Conservancy Technologies;
- In 2014, Solar water pumping technologies and global applications were awarded the United Nations Global Human Settlement Model of Green Technology;
- In 2016, Solartech was invited to attend World Irrigation Forum to promote global development of solar water conservancy industry;
- Solartech solar pumping products have been applied in more than 110 countries and regions around the world;

PB Series Solar Pumping Inverter Specifications:

| Model | Max.Solar Input Power (kW) | Max.DC Input Voltage | Input String | Recommended MPP Voltage (V) | Rated Output Current (A) | Output Frequency (Hz) | Output Voltage (VAC) | Net Weight (kg) | Gross Weight (kg) | Packing Size(mm) | | |
|---------|----------------------------|----------------------|--------------|-----------------------------|--------------------------|-----------------------|----------------------|-----------------|-------------------|------------------|-------|--------|
| | | | | | | | | | | Length | Width | Height |
| PB750L | 1.1 | 450 | 1 | 280 - 350 | 5 | 0 - 50/60 | 3PH 220V | 3.4 | 4.9 | 320 | 280 | 225 |
| PB1500L | 2.2 | 450 | 1 | 280 - 350 | 7 | 0 - 50/60 | 3PH 220V | 4 | 5.6 | 355 | 280 | 225 |
| PB2200L | 3.3 | 450 | 1 | 280 - 350 | 11 | 0 - 50/60 | 3PH 220V | 4 | 5.6 | 355 | 280 | 225 |
| PB3700L | 5 | 450 | 2 | 280 - 350 | 17 | 0 - 50/60 | 3PH 220V | 7.7 | 10 | 425 | 325 | 285 |
| PB5500L | 8 | 450 | 4 | 280 - 350 | 25 | 0 - 50/60 | 3PH 220V | 8.2 | 10.5 | 425 | 325 | 285 |
| PB3700H | 5 | 750 | 2 | 500 - 600 | 9 | 0 - 50/60 | 3PH 380V | 7.2 | 9.5 | 425 | 325 | 285 |
| PB5500H | 8 | 750 | 2 | 500 - 600 | 13 | 0 - 50/60 | 3PH 380V | 7.3 | 9.6 | 425 | 325 | 285 |
| PB7500H | 11 | 750 | 2 | 500 - 600 | 18 | 0 - 50/60 | 3PH 380V | 7.7 | 10 | 425 | 325 | 285 |
| PB11KH | 16 | 750 | 4 | 500 - 600 | 24 | 0 - 50/60 | 3PH 380V | 8.2 | 10.5 | 425 | 325 | 285 |
| PB15KH | 22 | 750 | 4 | 500 - 600 | 30 | 0 - 50/60 | 3PH 380V | 8.4 | 10.7 | 425 | 325 | 285 |
| PB18KH | 28 | 750 | 4 | 500 - 600 | 39 | 0 - 50/60 | 3PH 380V | 8.4 | 10.7 | 425 | 325 | 285 |
| PB22KH | 30 | 750 | 1* | 500 - 600 | 48 | 0 - 50/60 | 3PH 380V | 18 | 21 | 600 | 465 | 350 |
| PB30KH | 40 | 750 | 1* | 500 - 600 | 65 | 0 - 50/60 | 3PH 380V | 18 | 21 | 600 | 465 | 350 |
| PB37KH | 50 | 750 | 1* | 500 - 600 | 80 | 0 - 50/60 | 3PH 380V | 20 | 23 | 600 | 465 | 350 |
| PB45KH | 60 | 750 | 1* | 500 - 600 | 95 | 0 - 50/60 | 3PH 380V | 20 | 23 | 600 | 465 | 350 |
| PB55KH | 75 | 750 | 1* | 500 - 600 | 115 | 0 - 50/60 | 3PH 380V | 20 | 23 | 600 | 465 | 350 |
| PB75KH | 100 | 750 | 1* | 500 - 600 | 115 | 0 - 50/60 | 3PH 380V | 25.7 | 34.2 | 580 | 400 | 390 |

Note: Input string 1: PB22KH – PB75KH use terminal blocks and should be used together with a solar combiner box.

PB2200 L

