

PB5500H

Solartech Solar Pumping Inverter

- Compatible with submersible pumps, surface pumps, swimming pool pumps using 3-phase induction motors.
- Dynamic VI maximum power point tracking (MPPT) algorithm and optimized SPWM control method.
- Faster speed of response and good stability.
- Fully automatic operation. Pump operation frequency range can be set based on project requirement.
- 8 years storage capacity for operation data.
- Support soft start of pump. Full motor protections. Optional water level switch to protect overflow and dry running.
- Full aluminum alloy case. Ambient humidity $\leq 95\%$.
- Multiple DC input strings can implement solar combiner function, anti-reverse circuit at each input string.
- Optional solar pumping control box to support grid/diesel back-up, meeting running requirement for day and night.
- Optional advanced functions: encryption for installment payment, timing control.

Technical Data

Rated Power	5.5 kW
Max. Solar Input Power	8 kW
Input String	2
Max. Input Current of Each String	15 A
Max. DC Input Voltage	750 V
Recommended MPP Voltage*	500 - 600 V
Adapting Motor Power	4 - 5.5 kW
Adapting Motor Voltage	3PH 380-440V
Rated AC Output Current	13 A
Output Frequency	0 - 50 / 60 Hz
MPPT Efficiency	99%
Conversion Efficiency	max. 98%
Ambient Temperature	-10 ~ 50 °C
Cooling Method	natural air cooling
Display	LED
Protection Grade	IP52

Dimension and Weight

Product Dimension	250 × 310 × 200 mm
Packing Size	425 × 325 × 285 mm
Net Weight	7.3 kg
Gross Weight	9.6 kg



Relevant Information

Optional Accessory	Water level switch (for well or tank)
Warranty	3 years

Standards



EN 61000-6-3:2007
 EN 61000-6-1:2007
 IEC 61000-4-2
 IEC 61000-4-3
 EN 50178:1997

Recommended MPP Voltage*: Under standard test conditions, 1000W/m² solar irradiance, 25°C cell temperature.