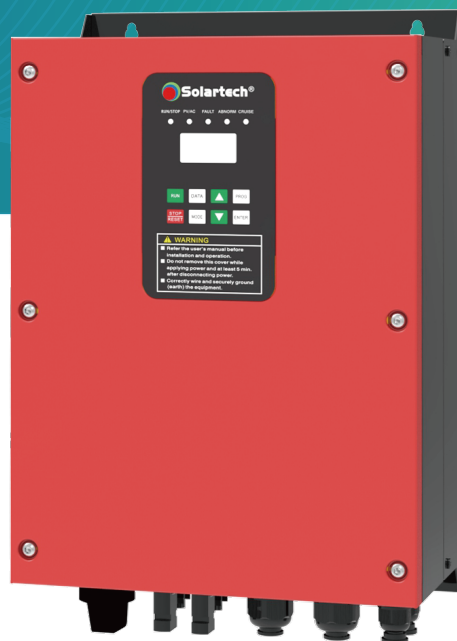


PB-HG4 Project Grade Solar Pumping Inverter

3.7kW - 18.5kW

Designed for Professional Solar Water Pumping Projects



Product Performance



Solar Priority & ECO Mode

Maximum Solar Utilization Supports hybrid operation with solar power and grid/generator supply, automatically prioritizing solar energy. ECO Mode intelligently regulates grid or generator assistance to maximize energy savings while ensuring reliable 24/7 water supply.



Built-in Bluetooth

Easy Local Commissioning Built-in Bluetooth enables fast setup, parameter adjustment, and local monitoring through a mobile app, improving installation and maintenance efficiency.



WiFi / 4G Remote Monitoring

Cloud-Based Smart Management Optional WiFi or 4G connectivity provides remote monitoring, alarm notifications, parameter configuration, and centralized multi-site management via the cloud platform.



Multi-Pump Linkage Control

Cascade Pump Control Supports master-slave operation and cascade control for multiple pumps, ideal for large irrigation systems, centralized water supply, and commercial farms.



Integrated Design

All-in-One Design Integrates DC disconnect switch, fuse protection, MPPT control, and comprehensive safety functions into a single unit. This reduces external components and wiring complexity, lowers system costs, shortens installation time, and improves overall system reliability.



IP66 Protection

Built for Harsh Environments Fully sealed IP66 enclosure enables direct outdoor installation without an additional cabinet, reducing project costs and enhancing system reliability.



Motor Compatibility & Protection

Flexible and Reliable Operation Compatible with Asynchronous motors and PMSM pumps, while comprehensive protection functions ensure long-term stable operation of the entire system.



Dual-Mode OTA Upgrade

Smart Maintenance & Updates Supports both Bluetooth-based OTA and cloud-based remote OTA upgrades, enabling convenient firmware updates, feature enhancements, and simplified system maintenance.



PAYGO Ready

Supports PAYGO business models Lowering upfront investment barriers and expanding market reach.

General Specifications



99% MPPT Efficiency



Max. Conversion Efficiency
≥98%



Protection Class
IP66



Forced Air Cooling



Ambient Temperature
-20°C ~ +60°C



Built-in Bluetooth / WiFi /
Optional 4G module



Adapting Asynchronous
Motor / PMSM



CE Certification

Product Specifications

Product Model	PB3700S-G4	PB3700L-G4	PB5500L-G4
Product Power	3.7 kW	3.7 kW	5.5 kW
Compatible Motor	1PH 220V~240V 2.2kW	3PH 220V~240V 2.2 – 3 kW	3PH 220V~240V 4 kW
Maximum Input DC Voltage	480 V	480 V	480 V
Start-up Voltage	150 V	150 V	150 V
Recommended MPPT Voltage	310~400 V	280~400 V	280~400 V
AC Input Voltage	1PH 220V~ 240 V	1PH 220V~ 240 V	3PH 220V~ 240 V
AC Input Current	35A	35A	25A (3PH)
AC Output Voltage	1PH / 3PH 220/240V	3PH 220/240V	3PH 220/240V
AC Output Current	17A	17A	22A
AC Output Frequency	50/60Hz	50/60Hz	50/60Hz
DC Circuit Breaker	Built-in	Built-in	Built-in

Product Model	PB3700H-G4	PB5500H-G4	PB7500H-G4
Product Power	3.7 kW	5.5 kW	7.5 kW
Compatible Motor	3PH 380V~440V 2.2 –3 kW	3PH 380V~440V 4 kW	3PH 380V~440V 5.5 kW
Maximum Input DC Voltage	880 V	880 V	880 V
Start-up Voltage	360 V	360 V	360 V
Recommended MPPT Voltage	500~700 V	500~700 V	500~700 V
AC Input Voltage	3PH 380V~ 440 V	3PH 380V~ 440 V	3PH 380V~ 440 V
AC Input Current	12 A	17.5 A	22.5 A
AC Output Voltage	3PH 380V~ 440 V	3PH 380V~ 440 V	3PH 380V~ 440 V
AC Output Current	9 A	13 A	18 A
AC Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz
DC Circuit Breaker	Built-in	Built-in	Built-in

Product Model	PB11KH-G4	PB15KH-G4	PB18KH-G4
Product Power	11 kW	15 kW	18.5 kW
Compatible Motor	3PH 380V~440V 7.5 - 11kW	3PH 380V~440V 15 kW	3PH 380V~440V 18.5 kW
Maximum Input DC Voltage	880 V	880 V	880 V
Start-up Voltage	360 V	360 V	360 V
Recommended MPPT Voltage	500~700 V	500~700 V	500~700 V
AC Input Voltage	3PH 380V~ 440 V	3PH 380V~ 440 V	3PH 380V~ 440 V
AC Input Current	30 A	39 A	45 A
AC Output Voltage	3PH 380V~ 440 V	3PH 380V~ 440 V	3PH 380V~ 440 V
AC Output Current	24 A	30 A	39 A
AC Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz