

# PSI-A3P Series

## Inverter

PSI-A3P10000-HY

## Battery

PSI-A-BT3.8S



### Three-phase system

For **residential** applications



### Inverter with 10 kW power rating



### 3,8 kWh battery module

Possible configurations from **1 to 6 modules in series**



### 10-year warranty <sup>(1)</sup>

For systems consisting of inverter plus battery

## Hybrid Inverters

UPS functionality with intelligent off-grid management.

Flexible wall-mounted or floor-mounted installation.

Anti-shading function for optimal performance.

## Hybrid Battery

Safe LFP cells for maximum reliability.

Capacity optimization through module balancing, with fast charge/discharge at 1 C.

## System Specifications

### PSI-A3P10000-HY | PSI-A-BT3.8S

Rated output power	10 kW
Capacity range	3,8 ~ 22,8 kWh (95% DoD)
Battery type	LFP (LiFePO4)
Warranty	10 years <sup>(1)</sup>

1. The 10-year warranty is valid only upon product registration on the portal and activation of the monitoring service.

## Inverter Specifications

### PSI-A3P10000-HY

Max. PV input power	20 kW
Max. PV input current	16 A / 16 A / 16 A
Max. PV input voltage	1000 V
Number of MPPTs	3
Number of DC inputs per MPPT	1
MPPT voltage range	140 ~ 950 V
Max. PV short-circuit current	24 A
Max. charge / discharge current	40 A
Max. charge / discharge power	10 kW
Nominal frequency	50 / 60 Hz
Nominal voltage	220 / 380 V, 230 / 400 V
Type	Hybrid, three-phase
Rated output current (Grid port)	14,5 A
Rated output current (Backup port)	14,5 A
Max. AC input power <sup>(2)</sup>	20 kW
Backup	UPS
Communication	Ethernet / Wi-Fi / Modbus / API
Relative humidity	0 to 90% non-condensing
Dimensions (W x D x H)	610 x 212,5 x 416 mm
Weight	26,7 kg
IP protection rating	IP65
Noise emission	≤ 30 dB

2. In specific applications.

## Battery Parameters

### PSI-A-BT3.8S

Module capacity	3,8 kWh
Usable capacity	3,648 kWh
Depth of discharge (DoD)	95% <sup>(3)</sup>
Nominal voltage	96 V
Max. charge / discharge current	40 A <sup>(4)</sup>
Operating temperature range	From -10 °C to 50 °C <sup>(5)</sup>
Cycle life	10000 <sup>(6)</sup>
Possible configurations	1 ~ 6 modules in series <sup>(7)</sup>
Dimensions (W x D x H)	610 x 212,5 x 435 mm
IP protection rating	IP21
Weight	39,2 kg
Noise emission	≤ 35 dB

3. Test conditions: max. 0,5C charge/discharge at 25 ±2 °C.

4. 50 A discharge current sustainable for 30 minutes in off-grid operation.

5. Max. charge/discharge current may vary depending on temperature conditions and SoC (state of charge).

6. Under specific test conditions.

7. Please refer to the PSI-A-BT3.8S battery datasheet.

## Certifications

For a complete list of certifications, please refer to [www.peimar.com](http://www.peimar.com)

