

## PSI-X1P3000-HY | PSI-X1P6000-HY

PSI-X1P SERIES | SINGLE PHASE HYBRID INVERTER



- ✓
**EQUIPPED WITH A DISPLAY**  
 Which offers a rapid commissioning and direct control
- ✓
**PEIMAR X PORTAL**  
 For remote monitoring, data reading and programming
- ✓
**2 MPPT**
- ✓
**IP65**

DC Input	PSI-X1P3000-HY	PSI-X1P6000-HY
PV Input power	4500 W	9000 W
PV Input voltage		600 V
MPPT Voltage range		70 - 550 V
Nominal DC Voltage		360 V
Startup Voltage		90 V
Max. DC Input Current		14 / 14 A
Max. Short Circuit Current		16 / 16 A
Number DC Connection per MPPT		1 / 1
Number of MPPT		2
DC Switch CC (DC-PV2)		Integrated

### Battery Parameters

Compatible storage devices (supply not included)	Peimar PSI-X-PRL-BMS (BMS parallel box) PSI-X-BT-5.8MST-HV (Master) e Peimar PSI-X-BT-5.8SLV-HV (Slave)
Possible battery configurations	5.8 kWh = 1 Master PSI-X-BT-5.8MST-HV 11.5 kWh = 1 Master PSI-X-BT-5.8MST-HV + 1 Slave PSI-X-BT-5.8SLV-HV 17.3 kWh = 1 Master PSI-X-BT-5.8MST-HV + 2 Slave PSI-X-BT-5.8SLV-HV 5.8 kWh = 1 PSI-X-PRL-BMS + 1 Slave PSI-X-BT-5.8SLV-HV 11.5 kWh = 1 PSI-X-PRL-BMS + 2 Slave PSI-X-BT-5.8SLV-HV 17.3 kWh = 1 PSI-X-PRL-BMS + 3 Slave PSI-X-BT-5.8SLV-HV 11.5 kWh = 1 PSI-X-PRL-BMS + 1 PSI-X-BT-5.8SLV-HV on B1 port + 1 PSI-X-BT-5.8SLV-HV on B2 port 23.0 kWh = 1 PSI-X-PRL-BMS + 2 PSI-X-BT-5.8SLV-HV on B1 port + 2 PSI-X-BT-5.8SLV-HV on B2 port 34.6 kWh = 1 PSI-X-PRL-BMS + 3 PSI-X-BT-5.8SLV-HV on B1 port + 3 PSI-X-BT-5.8SLV-HV on B2 port
Battery type	Lithium battery (LiFePO4)
Input voltage range	80 - 480 V
Max current charge / discharge	30 / 30 A

AC Output	PSI-X1P3000-HY	PSI-X1P6000-HY
Nominal output power	3000 W	6000 W
Max. output apparent power	3300 VA	6600 VA
Nominal output current	13.1 A	26.1 A
Max. output current	14.4 A	28.6 A
Nominal grid voltage	220, 230, 240 V / 180 - 270 V	
Nominal grid frequency	50, 60 Hz	
Displacement power factor (cos $\phi$ )	0.8 leading - 0.8 lagging	
THDi (Rated power)	< 2 %	
AC Connection	Single Phase 1L + N + PE	

## AC Output (Back-Up Mode)

Nominal Output power	3000 W	6000 W
Maximum peak power	3600 VA, 1 h	7200 VA, 10 min
Tension	230 V	
Grid frequency / Range	50, 60 Hz	
Switch time	< 10ms	
THDv	< 2 %	
Feed in	Single Phase 1L + N + PE	

## Accessories

Measuring device (not included)	PSI-X-1PMETER-ZI for current up to 80 A
Functions	Measurement of electrical parameters for management of external loads and charging/discharging of the storage system

## Protection

Over/under voltage protection DC/AC	Integrated
Backfeed current monitoring	Integrated
Anti-islanding protection	Integrated
Overload protection	Integrated
Over temperature protection	Integrated
Reverse polarity battery protection	Integrated
SPD (DC/AC)	Integrated

## Efficiency

MPPT Accuracy	99.9 %
Max. efficiency	97.6 %
Euro efficiency	97.0 %
Battery charge/discharge efficiency	97.0 %

## General Data

Isolation Type	Transformerless
Standby consumption (night)	< 3 W
Operating temperature range	-35°C - +60°C (derating above +45°C)
Cooling concept	Natural cooling
Relative humidity	0% - 100% without condensation
Storage temperature	-40°C - +65°C
Max. operation altitude	3000 m
Typical noise emission	< 30 dB
Ingress protection	IP65
Mounting system	Wall bracket
Dimensions (HxWxD)	482 x 417 x 181 mm
Weight	22 kg
Warranty	10 years

## Interface

AC Output	Terminal Block
PV Connection	MC4 or compatible connectors
Connessione linea back-up	Terminal Block
Battery	Connectors
LCD	Display LCD Integrated
Monitoring Dongle	Wi-Fi (PSI-X-H-WIFI 3.0 module Integrated) / LAN (PSI-X-H-ETH 3.0 module Optional) Dongle (USB port for Wi-Fi/Ethernet module) / BMS (RJ45 port for battery communication)
Communication Interfaces (interne e con batteria)	Meter / CT (RJ45 port for meter communication) / CAN (RJ45 port for parallel communication) COM / LCD (RJ45 port for external communication)

## Certifications

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