

PSI-X1P2500-TL | PSI-X1P3000-TL

PSI-X1P SERIES | SINGLE PHASE INVERTER



- EQUIPPED WITH A DISPLAY**
Which offers a rapid commissioning and direct control
- PEIMAR X PORTAL**
For remote monitoring, data reading and programming
- 1 MPPT**
- IP66**

DC Input	PSI-X1P2500-TL	PSI-X1P3000-TL
Max. PV input power	3750 W	4500 W
Max. PV input voltage		550 V
MPPT voltage range		55 - 530 V
Nominal input voltage		360 V
Startup voltage		70 V
Minimum PV input voltage		55 V
Max. input current per MPPT		14 A
Max. short circuit current per MPPT		18 A
No. of Strings per MPPT		1
No. of MPPTs		1
DC Switch (DC-PV2)		Integrated

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

AC Output	PSI-X1P2500-TL	PSI-X1P3000-TL
Nominal AC output power	2500 W	3000 W
Max. AC output apparent power	2750 VA	3300 VA
Nominal AC output current	10.8 A to 230 V	13.04 A to 230 V
Max. AC output current	11.9 A	14.3 A
Nominal AC voltage	220 V, 230 V, 240 V / 180 - 280 V	
Grid frequency	50 Hz, 60 Hz / \pm 5Hz	
Displacement power factor [cos Φ]	0.8 leading - 0.8 lagging	
THDi (Rated power)	< 3 %	
AC Connection	Single Phase 1L + N + PE	

System Data

Max. efficiency	98 %
Euro efficiency	96.5 %
MPPT efficiency	99.9 %

General Data

Isolation Type	Transformerless
Standby consumption (night)	< 0 W
Operating temperature range	-25°C - +60°C (derating above +45°C)
Cooling concept	Natural cooling
Relative humidity	0% - 100% without condensation
Max. operation altitude	2000 m
Typical noise emission	< 30 dB
Storage temperature	-30°C - +70°C
Overvoltage category	II (DC Input), III (AC Output)
Ingress protection	IP66
Mounting system	Wall bracket
Dimensions (H x W x D)	328 x 267 x 126 mm
Weight	8.3 kg
Warranty	10 years

Interface

AC Output	Plug-in connector
PV Connection	MC4 / H4 or compatible connectors
LCD	Display LCD Integrated
LED	LED (2)
Communication Interfaces	Dongle (USB port for Wi-Fi/Ethernet module) RS485 (RJ45 port for external communication)
Monitoring Dongle	Wi-Fi (PSI-X-H-WIFI-3.0 module Integrated) LAN (PSI-X-H-ETH-3.0 module Optional)

Protection

Over / under voltage protection	Integrated
DC isolation protection	Integrated
Monitoring ground fault protection	Integrated
Grid monitoring	Integrated
DC injection monitoring	Integrated
Back feed current monitoring	Integrated
Residual current detection	Integrated
Anti-islanding protection	Integrated
Over temperature protection	Integrated
SPD (DC / AC)	Integrated

Certifications

For a complete list of certificates, please refer to www.peimar.com