

PSI-X1P2500-TL | PSI-X1P3000-TL

PSI-X1P Series



10 years
Product warranty



PEIMAR X PORTAL
Remote monitoring

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

Compatible meter	PSI-X-IPMETER-ZI (not included)
Functionality	Measurement of grid load power (self-consumption) and export power limitation function
Meter-inverter connection cable	10 m connection cable and RJ45 plug (supplied with the PSI-X-IPMETER-ZI meter). For longer distances (maximum 100 m), use a CAT5 data cable (not included).

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

