

PSI-X1P3000-TLM | PSI-X1P4200-TLM PSI-X1P5000-TLM | PSI-X1P6000-TLM

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
- ✓ **2 MPPT**
- ✓ **IP66**

DC Input	PSI-X1P3000-TLM	PSI-X1P4200-TLM	PSI-X1P5000-TLM	PSI-X1P6000-TLM
Max. PV input power	4500 W	6300 W	7500 W	9000 W
Max. input power (MPPT1 / MPPT2)	3000 / 3000 W	4200 / 4200 W	4500 / 4500 W	4500 / 4500 W
Max. PV input voltage	600 V			
MPPT voltage range	70 - 580 V			
Nominal input voltage	360 V			
Startup voltage	100 V			
Minimum PV input voltage	70 V			
Max. input current per MPPT	14 / 14 A			
Max. short circuit current per MPPT	18 / 18 A			
No. of Strings per MPPT	1 / 1			
No. of MPPTs	2			
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-X1P3000-TLM	PSI-X1P4200-TLM	PSI-X1P5000-TLM	PSI-X1P6000-TLM
Nominal AC output power	3000 W	4200 W	5000 W	6000 W
Max. AC output apparent power	3300 VA	4620 VA	5500 VA	6600 VA
Nominal AC output current	13 A to 230 V	18,3 A to 230 V	21,7 A to 230 V	26,1 A to 230 V
Max. AC output current	14,3 A	20,1 A	23,9 A	28,7 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)	< 2 %			
AC Connection	Single Phase 1L + N + PE			

System Data

Max. efficiency	97,8 %
Euro efficiency	97,0 %
MPPT efficiency	99,9 %

General Data

Isolation Type	Transformerless	
Standby consumption (night)	< 2 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	3000 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)	430 x 341,5 x 143 mm	
Weight	13,5 kg	15 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) Upgrade (USB port for firmware update) / 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