

PSI-X1P1100-TL | PSI-X1P1500-TL PSI-X1P2000-TL | 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-X1P1100-TL	PSI-X1P1500-TL	PSI-X1P2000-TL	PSI-X1P2500-TL	PSI-X1P3000-TL
Max. PV input power	1650 W	2250 W	3000 W	3750 W	4500 W
Max. PV input voltage	450 V			550 V	
MPPT voltage range	45 - 430 V	50 - 430 V		55 - 530 V	
Nominal input voltage	360 V				
Startup voltage	50 V		70 V		
Minimum PV input voltage	45 V	50 V		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-X1P1100-TL	PSI-X1P1500-TL	PSI-X1P2000-TL	PSI-X1P2500-TL	PSI-X1P3000-TL
Nominal AC output power	1100 W	1500 W	2000 W	2500 W	3000 W
Max. AC output apparent power	1210 VA	1650 VA	2200 VA	2750 VA	3300 VA
Nominal AC output current	4.78 A to 230 V	6.52 A to 230 V	8.7 A to 230 V	10.8 A to 230 V	13.04 A to 230 V
Max. AC output current	5.3 A	7.2 A	9.6 A	11.9 A	14.3 A
Nominal AC voltage	220 V, 230 V, 240 V / 180 - 280 V				
Grid frequency	50 Hz, 60 Hz / ± 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	95.5 %	96.0 %		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	6 kg			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 Optional) LAN (PSI-X-H-ETH-3.0 module Optional)		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-landing protection	Integrated
Over temperature protection	Integrated
SPD (DC/AC)	Integrated

Certifications

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