

PSI-X3P125000-TPM

PSI-X3P SERIES | THREE PHASE INVERTER



- ✓ **EQUIPPED WITH A DISPLAY**
Which offers a rapid commissioning and direct control
- ✓ **PEIMAR X PORTAL**
For remote monitoring, data reading and programming
- ✓ **SPD TYPE II (DC/AC)**
- ✓ **12 MPPT**
- ✓ **IP66**

DC Input

PSI-X3P125000-TPM

Max. PV input power	188000 W (max 16 kW per MPPT)
Max. PV input voltage	1100 V
MPPT voltage range	180 - 1000 V
Nominal input voltage	600 V
Startup voltage	200 V
Minimum PV input voltage	180 V
Max. input current per MPPT	32 A
Max. short circuit current per MPPT	46 A
No. of Strings per MPPT	2
No. of MPPTs	12
DC Switch (DC-PV2)	Integrated

AC Output

PSI-X3P125000-TPM

Nominal AC output power	125000 W
Max. AC output apparent power	132000 VA
Nominal AC output current	181.2 A @ 400 V
Max. AC output current	191.3 A
Nominal AC voltage	230 / 400 V
Grid frequency	50, 60 Hz
Displacement power factor [cos Φ]	0.8 leading - 0.8 lagging
THDi (Rated power)	< 3 %
AC Connection	Three Phase 3L + N + PE / 3L + PE

System Data

Max. efficiency	98.6%
MPPT efficiency	99.9 %

General Data

Isolation Type	Transformerless
Standby consumption (night)	< 10 W
Operating temperature range	-25°C - +60°C (derating above +45°C)
Cooling concept	Smart fan cooling and Natural cooling
Relative humidity	0% - 100% without condensation
Max. operation altitude	4000 m (derating above 3000 m)
Typical noise emission	< 80 dB
Storage temperature	-30°C - +65°C
Overvoltage category	II (DC Input), III (AC Output)
Ingress protection	IP66
Mounting system	Wall bracket
Dimensions (H×W×D)	660 x 985 x 327,5 mm
Weight	87 kg
Warranty	5 years

Interface

AC Output	Terminal Block
PV Connection	MC4 or compatible connectors
LCD	Display LCD Integrated
LED	LED (4)
Language	Italian / English
Communication Interfaces	Dongle (USB port for Wi-Fi/Ethernet module) / COM (COMM connector for external communication)
Monitoring Dongle	Wi-Fi (PSI-X-H-WIFI-3.0 module Optional) / LAN (PSI-X-H-ETH-3.0 module Integrated)

Protection

Over/under voltage protection	Integrated
DC isolation protection	Integrated
Grid monitoring	Integrated
DC injection monitoring	Integrated
Residual current detection	Integrated
String fault detection	Integrated
Anti-islanding protection	Integrated
Over temperature protection	Integrated
SPD	Type 2 Integrated (DC/AC)

Certifications

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