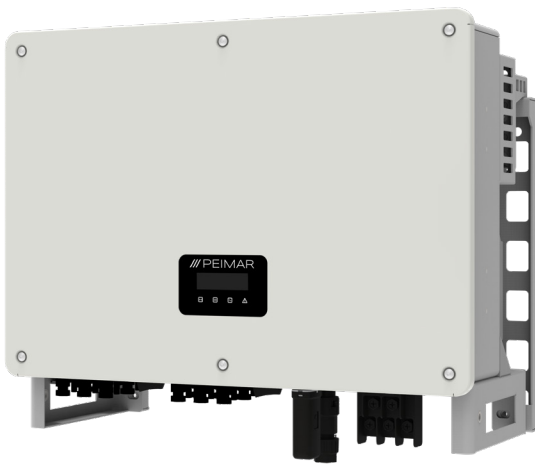


# PSI-X3P40000-TPM | PSI-X3P50000-TPM PSI-X3P60000-TPM

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)**
- ✓ **4 | 6 MPPT**
- ✓ **IP66**

DC Input	PSI-X3P40000-TPM	PSI-X3P50000-TPM	PSI-X3P60000-TPM
Max. PV input power	60000 W (max 16 kW per MPPT)	75000 W (max 16 kW per MPPT)	90000 W (max 15 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	4	5	6
DC Switch (DC-PV2)	Integrated		

AC Output	PSI-X3P40000-TPM	PSI-X3P50000-TPM	PSI-X3P60000-TPM
Nominal AC output power	40000 W	50000 W	60000 W
Max. AC output apparent power	44000 VA	55000 VA	66000 VA
Nominal AC output current	60.6 A to 380 V / 58 A to 400 V	75.8 A to 380 V / 72.5 A to 400 V	90.9 A to 380 V / 87 A to 400 V
Max. AC output current	66.7 A to 380 V / 63.8 A to 400 V	83.3 to 380 V / 79.7 A to 400 V	100 A to 380 V / 95.7 A to 400 V
Nominal AC voltage	220/380 V, 230/400 V		
Grid frequency	50, 60 Hz		
Displacement power factor [cos $\Phi$ ]	0.8 leading - 0.8 lagging		
THDi (Rated power)	< 3 %		
AC Connection	Three Phase 3L + N + PE / 3L + PE		

## System Data

Max. efficiency	98.4%
Euro efficiency	98.1%
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	Smart fan cooling and Natural cooling		
Relative humidity	0% - 100% without condensation		
Max. operation altitude	4000 m (derating above 3000 m)		
Typical noise emission	< 67 dB		< 68 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)	521 x 630 x 286 mm		
Weight	44 kg	44.5 kg	45.5 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
Over-current protection	Integrated
SPD	Type 2 Integrated (DC/AC)

## Certifications

For a complete list of certificates, please refer to [www.peimar.com](http://www.peimar.com)