

PSI-X3P15000-TPM | PSI-X3P20000-TPM

PSI-X3P30000-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)
- ✓ **2 | 3** MPPT
- ✓ **IP66**

DC Input	PSI-X3P15000-TPM	PSI-X3P20000-TPM	PSI-X3P30000-TPM
Max. PV input power	22500 W (max 12 kW per MPPT)	30000 W (max 15 kW per MPPT)	45000 W (max 15 kW per MPPT)
Max. PV input voltage	1100 V		
MPPT voltage range	160 - 980 V		
Nominal input voltage	650 V		
Startup voltage	200 V		
Minimum PV input voltage	160 V		
Max. input current per MPPT	32 / 32 A	32 / 32 A	32 / 32 / 32 A
Max. short circuit current per MPPT	40 / 40 A	40 / 40 A	40 / 40 / 40 A
No. of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2
No. of MPPTs	2	2	3
DC Switch (DC-PV2)	Integrated		

AC Output	PSI-X3P15000-TPM	PSI-X3P20000-TPM	PSI-X3P30000-TPM
Nominal AC output power	15000 W	20000 W	30000 W
Max. AC output apparent power	16500 VA (12000 VA using a single MPPT)	22000 VA (12000 VA using a single MPPT)	30000 VA (15000 VA using a single MPPT)
Nominal AC output current	22,8 A to 380 V / 21,8 A to 400 V	30,3 A to 380 V / 29 A to 400 V	45,5 A to 380 V / 43,5 A to 400 V
Max. AC output current	24,2 A	33,6 A	45,5 A
Nominal AC voltage	220/380 V, 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	98,3 %	98,5 %
Euro efficiency	97,8 %	98,0 %
MPPT efficiency	99,9 %	

General Data

Isolation Type	Transformerless	
Standby consumption (night)	< 3 W	
Operating temperature range	-30°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	< 55 dB	< 58 dB
Storage temperature	-30°C - +60°C	
Overvoltage category	II (DC Input), III (AC Output)	
Ingress protection	IP66	
Mounting system	Wall bracket	
Dimensions (H×W×D)	417 x 482 x 186 mm	
Weight	26 kg	28 kg
Warranty	10 years	5 years

Interface

AC Output	Terminal Block	
PV Connection	MC4 or compatible connectors	
LCD	Display LCD Integrated	
LED	LED (2)	
Language	Italian / English	
Communication Interfaces	Dongle (USB port for Wi-Fi/Ethernet module) / COM (RJ45 port for optional connections) / RS485 (terminal block for external communication, parallel function, meter 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
Residual current monitoring	Integrated
Anti-landing 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