

PSI-X3P100000-TPM

PSI-X3P Series



5 years
Product warranty



PEIMAR X PORTAL
Remote Monitoring

More energy harvest

- Maximum efficiency up to 98.6%
- 180 ~ 1000 Vdc MPPT voltage range
- Maximum 9 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32 A MPPT current

Safety & Reliability

- IP66 protection level
- AC terminal temperature detection

Intelligence for easy maintenance and economy

- Built-in export power control
- Remote setting and upgrading
- 24 hours operation monitoring
- Smart I-V Curve Diagnosis supported
- Night-time reactive power compensation
- Aluminium AC cable connection available
- Power line communication (Optional)
- Fuse free design with smart string current monitoring
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 5% lighter and smaller

DC Input

PSI-X3P100000-TPM

Max. PV array input power	150000 W
Max. PV input voltage	1100 V
Nominal input voltage ⁽¹⁾	580 / 600 V
Startup voltage	200 V
MPP tracker voltage range	180 - 1000 V
No. of MPP trackers	9
No. of Strings per MPP tracker	2
Max. PV input current per MPPT	32 A
Isc PV Array Short Circuit current per MPPT	46 A

AC Output

Rated AC output power	100000 W
Rated AC output current ⁽¹⁾	151,6 A / 145 A
Max. AC output apparent power	110000 VA
Max. AC output current ⁽¹⁾	166,7 A / 159,5 A
Nominal AC voltage	220 A / 380 A, 230 A / 400 A, 3/N/PE, 3/PE
AC voltage range ⁽²⁾	304 ~ 480 V
Nominal AC frequency / AC frequency range ⁽²⁾	50, 60 Hz; ±5
THDi (Rated power)	< 3 %
Power factor range [cos φ]	0,8 leading - 0,8 lagging

1. The two data refer to different grid voltage 220V/230V or 500V/540V

2. The AC voltage and the frequency range may vary from different country codes

System Data

Max. efficiency	98,6%
European weighted efficiency	98,3 %
Ingress protection	IP66
Operating temperature range	-25°C ~ +60°C
Max. operation altitude	4000 m (derating above 3000 m)
Relative humidity	0% ~ 100%
Dimensions (W x H x D)	985 x 660 x 327,5 mm
Weight	83 kg
Cooling concept	Smart fan cooling
Communication Interfaces	RS485 / USB / DRM
Monitoring Dongle	Wi-Fi (PSI-X-H-WIFI-3.0 module: optional) / LAN (PSI-X-H-ETH-3.0 module: included)
Display	LED (4) / LCD (16 x 2)

Protection

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

Certifications

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

