

PSI-X3P100000-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)**
- ✓ **9 MPPT**

More energy harvest

Maximum efficiency up to 98.6%
180 ~ 1000Vdc 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

System Data

Max. efficiency	98.6%
European weighted efficiency	98.3 %
Ingress protection	IP66
Operating temperature range	-25°C - +60°C (derating above +45°C)
Max. operation altitude	4000 m (derating above 3000 m)
Relative humidity	0% ~ 100% without condensation
Dimensions (H x W 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 Optional)
Display	LED (4) / LCD (16x2)

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

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