

PSI-X1P8000-TLS (A) | PSI-X1P10000-TLS (A)

PSI-X1P SERIES | SINGLE-PHASE PV INVERTER



- EQUIPPED WITH A DISPLAY**
Which offers a rapid commissioning and direct control
- PEIMAR X PORTAL**
For remote monitoring, data reading and programming
- 3 MPPT**
- IP66**

Advanced Performance

Max. PV input current 20 A compatible with advanced high-power panels

200 % PV oversizing, and 110 % AC overloading

Adaptable and Multifunctional

Multiple units in parallel for larger system

Global MPP scan to yield more

Fast I - V curve scan and report for earlier panel issue diagnosis

Robust safety protection

Optional external RSD (Rapid Shut Down) and integrated DC AFCI protection

DC / AC both sides SPD2 protection

User-friendly O&M

Super convenient and quick plug-play communication terminal

Aluminum AC wires supported

10s data refresh interval with new Cloud interface

24h consumption monitoring

DC Input	PSI-X1P8000-TLS (A)	PSI-X1P10000-TLS (A)
Max. PV input power	16000 W	20000 W
Max. PV input voltage		600 V
Start-up voltage		50 V
Nominal input voltage		360 V
MPPT voltage range		40 ~ 560 V
No. of MPP trackers / Strings per MPP tracker		3 / 1
Max. PV input current		20 A
Max. input short circuit current I _{sc}		25 A

AC Output

Rated AC output power	8000 W	9999 W
Max. AC output apparent power	8800 VA	9999 VA
Rated AC output current	34.8 A	43.5 A
Max. AC output current	40 A	45.5 A
Nominal AC voltage / AC voltage range	220 V, 230 V, 240 V / 90 - 290 V	
Nominal AC frequency / AC frequency range	50 Hz, 60 Hz / ± 5Hz	
Power Factor range	0.8 leading - 0.8 lagging	
THDi (Rated power)	< 3 %	

System Data

Max. Efficiency	98.2 %
European weighted efficiency	97.5 %
Standby consumption (night)	< 3 W
Ingress protection	IP66
Operating ambient temperature range	- 25 °C - 60 °C
Max. operating altitude	4000 m
Relative humidity	0 % - 100 %
Typical noise emission	< 30 dB
Dimensions (W x H x D)	515 x 370 x 170 mm
Net weight	19.5 kg
Cooling concept	Natural cooling
Communication interfaces	RS485 / DRM / USB / CT / Meter
Optional monitoring dongle	WiFi / LAN / WiFi + LAN

Protection

Over / under voltage protection	Integrated
DC isolation protection	Integrated
Monitoring ground fault protection	Integrated
Grid monitoring	Integrated
DC injection monitoring	Integrated
Back feed current monitoring	Integrated
Residual current detection	Integrated
Anti-islanding protection	Integrated
Over temperature protection	Integrated
SPD (DC / AC)	Type II / Type II
Arc-fault circuit interrupter (AFCI)	Included for LATAM
AC auxiliary power supply (APS)	Integrated
DC Switch	Integrated

Certifications

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