PEIMAR
ITALIAN PHOTOVOLTAIC MODULES

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

PSI-X1P Series



PEIMAR X PORTAL
For remote monitoring

Advanced Performance

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

200 % PV oversizing, and 110 % AC overloading

Robust safety protection

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

DC / AC both sides SPD2 protection

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

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

It is important to point out, that all technical specifications, information and figures contained in this datasheet are estimated values. Peimar reserves the right to change the technical specifications, information and figures contained in this document at any time without notice.

PSI-X1P

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 Isc	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. Eciency	98,2 %
European weighted eciency	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

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