

PSI-X1P3000-HY | PSI-X1P6000-HY

Serie PSI-X1P



10 years
Product warranty



PEIMAR X PORTAL
Remote Monitoring

DC Input	PSI-X1P3000-HY	PSI-X1P6000-HY
PV Input power	4500 W	9000 W
PV Input voltage		600 V
MPPT Voltage range		70 - 550 V
Nominal DC Voltage		360 V
Startup Voltage		90 V
Max. DC Input Current		16 / 16 A
Max. Short Circuit Current		20 / 20 A
Number DC Connection per MPPT		1 / 1
Number of MPPT		2
DC Switch CC (DC-PV2)		Integrated

Battery Parameters

Compatible storage devices (supply not included)

Peimar PSI-X-PRL-BMS (BMS parallel box)
PSI-X-BT-5.8MST-HV (Master), Peimar PSI-X-BT-5.8SLV-HV (Slave)

Possible battery configurations

5,8 kWh = 1 Master PSI-X-BT-5.8MST-HV
11,5 kWh = 1 Master PSI-X-BT-5.8MST-HV + 1 Slave PSI-X-BT-5.8SLV-HV
17,3 kWh = 1 Master PSI-X-BT-5.8MST-HV + 2 Slave PSI-X-BT-5.8SLV-HV
5,8 kWh = 1 PSI-X-PRL-BMS + 1 Slave PSI-X-BT-5.8SLV-HV
11,5 kWh = 1 PSI-X-PRL-BMS + 2 Slave PSI-X-BT-5.8SLV-HV
17,3 kWh = 1 PSI-X-PRL-BMS + 3 Slave PSI-X-BT-5.8SLV-HV
11,5 kWh = 1 PSI-X-PRL-BMS + 1 PSI-X-BT-5.8SLV-HV on B1 port + 1 PSI-X-BT-5.8SLV-HV on B2 port
23,0 kWh = 1 PSI-X-PRL-BMS + 2 PSI-X-BT-5.8SLV-HV on B1 port + 2 PSI-X-BT-5.8SLV-HV on B2 port
34,6 kWh = 1 PSI-X-PRL-BMS + 3 PSI-X-BT-5.8SLV-HV on B1 port + 3 PSI-X-BT-5.8SLV-HV on B2 port

Battery type	Lithium battery (LiFePO4)
Input voltage range	80 - 480 V
Max current charge / discharge	30 / 30 A

AC Output	PSI-X1P3000-HY	PSI-X1P6000-HY
Nominal output power	3000 W	6000 W
Max. output apparent power	3300 VA	6600 VA
Nominal output current	13,1 A	26,1 A
Max. output current	14,4 A	28,6 A
Nominal grid voltage	220, 230, 240 V / 180 - 270 V	
Nominal grid frequency	50, 60 Hz	
Displacement power factor [cos φ]	0,8 leading - 0,8 lagging	
THDi (Rated power)	< 2%	
AC Connection	Single Phase 1L + N + PE	

AC Output (Back-Up Mode)

Nominal Output power	3000 W	6000 W
Maximum peak power	3600 VA, 1 h	7200 VA, 10 min
Tension	230 V	
Grid frequency / Range	50, 60 Hz	
Switch time	< 10 ms	
THDv	< 2%	
Feed in	Single Phase 1L + N + PE	

Accessories

Measuring device (not included)	PSI-X-IPMETER-ZI for current up to 80 A
Functions	Measurement of electrical parameters for management of external loads and charging/discharging of the storage system

Protection

Over/under voltage protection DC/AC	Integrated
Backfeed current monitoring	Integrated
Anti-islanding protection	Integrated
Overload protection	Integrated
Over temperature protection	Integrated
Reverse polarity battery protection	Integrated
SPD (DC/AC)	Integrated

Efficiency

MPPT Accuracy	99,9%
Max. efficiency	97,6%
Euro efficiency	97,0%
Battery charge/discharge efficiency	97,0%

Informazioni Generali

Topologia	Transformerless
Consumo in standby	< 3 W
Range di temperatura di funzionamento	-35 °C ~ +60 °C (derating above +45 °C)
Metodo di raffreddamento	Natural cooling
Umidità ambientale	0% ~ 100% without condensation
Temperatura di stoccaggio	-40 °C ~ +65 °C
Altitudine	3000 m
Rumore	< 30 dB
Grado di protezione	IP65
Montaggio	Wall bracket
Dimensioni (H x L x P)	482 x 417 x 181 mm
Peso netto	22 kg
Garanzia	10 years

Interface

AC Output	Terminal Block
PV Connection	MC4 or compatible connectors
Connessione linea back-up	Terminal Block
Battery	Connectors
LCD	Display LCD Integrated
Monitoring Dongle	Wi-Fi (PSI-X-H-WIFI 3.0 module Integrated) LAN (PSI-X-H-ETH 3.0 module Optional)
Communication Interfaces (interne e con batteria)	Dongle (USB port for Wi-Fi/Ethernet module) / BMS (RJ45 port for battery communication) Meter / CT (RJ45 port for meter communication) / CAN (RJ45 port for parallel communication) COM / LCD (RJ45 port for external communication)

Certifications

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

