

PSI-X3S6000-HY | PSI-X3S8000-HY PSI-X3S10000-HY | PSI-X3S15000-HY

PSI-X3S Series



10 years
Product warranty



PEIMAR X PORTAL
Remote Monitoring

High Efficiency

200 % PV oversized and up to 110 % AC overload output
Higher efficiency on charging and discharging, up to 97.5 %
Built-in shadow tracking function

Safe and Reliable

Integrated SPD
16 A DC single string input current, support high power solar panel
Up to 150% PV input
Store the surplus energy from PV to battery

Low start output voltage makes inverter longer working time

Less energy loss on battery to inverter

Smart

150 % EPS overload output for 10s
Switchover time < 10 ms
Quick configuration with U-disk
Lithium-ion & Lead-acid battery compatible
CT compatible, loads respond within 0.3s
Intelligent loads management (e.g., Heat pump)
On & Off-grid parallel function, up to 150 kW
5 work modes, 2 charging periods available
VPP ready, ancillary service in power market

Three-phase unbalanced output Maximum 5 kW output power on single phase at most

Super-backup ready, EPS operation without batteries

| DC Input | PSI-X3S6000-HY | PSI-X3S8000-HY | PSI-X3S10000-HY | PSI-X3S15000-HY |
|---|----------------|----------------|-----------------|-----------------|
| Max. PV array power | 12000 W | 16000 W | 20000 W | 30000 W |
| Max. PV input voltage | 1000 V | | | |
| Start voltage | 200 V | | | |
| Nominal input voltage | 640 V | | | |
| MPP voltage range | 180 - 950 V | | | |
| No. of MPP trackers / Strings per MPP tracker | 2 (1 / 1) | 2 (2 / 1) | 2 (2 / 1) | 2 (2 / 1) |
| Max. input current | 16 / 16 A | 28 / 16 A | 28 / 16 A | 28 / 16 A |
| Max. short circuit current | 20 / 20 A | 35 / 20 A | 35 / 20 A | 35 / 20 A |

Battery Data

| | |
|--|---------------------|
| Battery type | Lithium-ion battery |
| Battery voltage range | 180 - 800 V |
| Max. continuous charge / discharge current | 30 / 30 A |

Output AC

| | | | | |
|-----------------------------------|---------------------------------------|---------|----------|----------|
| Nominal AC output power | 6000 W | 8000 W | 10000 W | 15000 W |
| Max. AC output apparent power | 6600 VA | 8800 VA | 11000 VA | 15000 VA |
| Max. AC output current | 9,7 A | 12,9 A | 16,1 A | 24,1 A |
| Max. AC input apparent power | 1200 VA | 1600 VA | 20000 VA | 20000 VA |
| Max. AC input current | 19,3 A | 25,8 A | 32,0 A | 32,0 A |
| Nominal AC voltage | 415 / 240 V; 400 / 230 V; 380 / 220 V | | | |
| Nominal grid frequency | 50 / 60 Hz | | | |
| Displacement power factor [cos φ] | 0,8 leading - 0,8 lagging | | | |
| THDi, rated power | < 3% | | | |

Output AC (Back-Up mode)

| | | | | |
|-------------------------|---------------|---------------|---------------|---------------|
| Nominal output power | 6000 W | 8000 W | 10000 W | 15000 W |
| Peak apparent power | 12000 VA, 10s | 18000 VA, 10s | 18000 VA, 10s | 22500 VA, 10s |
| Max. continuous current | 8,7 A | 11,6 A | 14,5 A | 21,8 A |
| Nominal voltage | 400 / 230 V | | | |
| Nominal frequency | 50 / 60 Hz | | | |
| Switch time | < 10 ms | | | |
| Parallel operation | Yes | | | |

System Data

| | | | | |
|--|--|--|---------------|--|
| Max. efficiency | 98,0 % | | | |
| Euro. efficiency | 97,7 % | | | |
| Battery charge / discharge efficiency ⁽¹⁾ | 98,5 % / 97,5 % | | | |
| Degree of protection | IP65 | | | |
| Operating temperature range | - 35 °C ~ + 60 °C (derating above + 45 °C) | | | |
| Altitude | < 3000 m | | | |
| Relative humidity | 0 ~ 100 % | | | |
| Typical noise emission | < 35 dB | | < 45 dB | |
| Storage temperature | - 40 °C ~ + 70 °C | | | |
| Dimensions (W x H x D) | 503 x 503 x 199 mm | | | |
| Net weight | 30 kg | | | |
| Cooling concept | Nature cooling | | Smart cooling | |
| Communication interfaces | CT / Meter (optional), External control RS485, Pocket Wi-Fi (optional: Pocket Lan / 4G), DRM, USB Upgrade, NTC (optional) | | | |

1. PV to BAT Max. efficiency 98.5 %, BAT to AC Max. efficiency 97.5 %.

Power Consumption

| | |
|------------------------------|------------------------------------|
| Internal consumption (night) | < 40 W for standby, < 5 W for idle |
|------------------------------|------------------------------------|

Certifications

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

