

Single-phase Residential On-grid Inverter



X1-BOOST G4

2.5kW / 3.0kW / 3.3kW / 3.6kW
4.0kW / 4.2kW / 5.0kW / 6.0kW



High Efficiency

- 200% PV oversizing and 16A input to support high-power panels
- 50V start up voltage



Assured Safety

- Type II SPD on AC & DC side
- Ready for rapid shutdown function
- AFCI support (optional)



Intelligent Design

- 10s data refresh on SolaXCloud
- Easy configuration via WiFi & App
- IV curve scan



Flexible Adaptability

- Supports parallel operation for up to 5 inverters, no external EMS required
- Smart loads management (e.g. heat pump, smart EV charger)
- Built-in export power control function

PV INPUT								
Max. recommended PV array power	6.0 kWp	6.0 kWp	6.6 kWp	7.2 kWp	8.0 kWp	8.0 kWp	10.0 kWp	12.0 kWp
Max. PV input voltage ^①	600 V							
Rated PV input voltage	360 V							
Operation voltage range	35 ~ 600 V							
MPPT voltage range ^②	40 ~ 560 V							
Start up voltage	50 V							
No. of MPP trackers / strings per MPP tracker	2 / (1 / 1)							
Max. input current per MPPT	16 A / 16 A							
Max. input short circuit current per MPPT	22 A / 22 A							
AC OUTPUT								
Rated output power	2500 W	3000 W	3300 W	3680 W	4000 W	4200 W	5000 W ^③	6000 W
Rated output current	10.9 A	13.1 A	14.4 A	16.0 A	17.4 A ^④	18.3 A	21.7 A	26.1 A
Max. output apparent power	2750 VA	3300 VA	3630 VA	4048 VA ^⑤	4000 VA	4620 VA	5000 VA ^⑥	6000 VA
Max. output continuous current	12.0 A	14.4 A	15.8 A	17.6 A ^⑦	17.4 A ^⑧	20.1 A	21.7 A ^⑨	27.3 A
Rated AC voltage	1 / N / PE, 220 / 230 / 240 V							
Rated AC frequency	50 Hz / 60 Hz							
AC frequency range ^⑩	50 ± 5 Hz / 60 ± 5 Hz							
Adjustable power factor range	~ 1 (0.8 lagging to 0.8 leading)							
THDi (rated power)	< 3%							
EFFICIENCY								
Max. efficiency	98.0%							
European efficiency	97.0%							
ENVIRONMENT LIMIT								
Ingress protection	IP66							
Operation temperature range	-25 ~ 60°C							
Max. operation altitude	4000 m							
Relative humidity	0 ~ 100% RH (condensing)							
Overvoltage category	Mains: III, PV: II							
GENERAL								
Dimensions (W × H × D)	404 × 274 × 146 mm							
Net weight	11.0 kg						11.5 kg	
Cooling concept	Natural cooling							
Communication interfaces	RS 485, DRM, optional: meter, CT							
Power consumption (night)	< 3 W							
Topology	Non-isolated							
Certifications	IEC/EN 62109-1/-2, IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR							
AC auxiliary power supply (APS)	Optional							
PROTECTION								
Protection	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, DC reverse-polarity protection							
Active anti-islanding protection	Frequency shift							
Surge protection (DC / AC)	DC: Type II , AC: Type II							
Arc-fault circuit interrupter (AFCI)	Optional							

① The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter

② Input voltage exceeding the MPPT voltage range may trigger inverter protection

③ 5000 W (4600 W for VDE4105, 4999 W for AS4777.2)

④ 17.4 A (16 A For G98) ⑤ 4048 VA (3680VA For G98/G99, TOR and PPDS)

⑥ 5000 VA (4600 VA for VDE4105, 4999 VA for AS4777.2)

⑦ 17.6 A (16 A For G98/G99, TOR and PPDS) ⑧ 17.4 A (16 A For G98) ⑨ 21.7 A (20 A for VDE4105)

⑩ The AC frequency range may vary from different country codes