

Single-phase Residential On-grid Inverter



X1-MINI G4

0.6kW / 0.7kW / 1.1kW / 1.5kW
2.0kW / 2.5kW / 3.0kW / 3.3kW



High Efficiency

- 200% PV oversizing and 16A input to support high-power panels
- Ultra-Wide MPPT voltage range
- Built-in global MPP scan



Assured Safety

- Type II SPD on AC & DC side
- Ready for rapid shutdown function
- AFCI support (optional)
- IP66 ingress protection



Intelligent Design

- 10s data refresh on SolaXCloud
- IV curve scan



Flexible Adaptability

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

PV INPUT								
Max. recommended PV array power	1.2 kWp	1.4 kWp	2.2 kWp	3 kWp	4 kWp	5 kWp	6 kWp	6.6 kWp
Max. PV input voltage ^①	450 V					550 V		
Rated PV input voltage	360 V							
Operation voltage range	35 ~ 450 V					35 ~ 550 V		
Start up voltage	50 V							
No. of MPP trackers / strings per MPP tracker	1 / 1							
Max. input current per MPPT	16 A							
Max. input short circuit current per MPPT	22 A							
AC OUTPUT								
Rated output power	600 W	700 W	1100 W	1500 W	2000 W	2500 W	3000 W	3300 W
Rated output current ^②	2.6 A	3.1 A	4.8 A	6.5 A	8.7 A	10.9 A	13.1 A	14.4 A
Max. output apparent power	600 VA	770 VA	1210 VA	1650 VA	2200 VA	2750 VA	3300 VA	3300 VA
Max. output continuous current ^②	3.0 A	3.5 A	5.5 A	7.5 A	10.0 A	12.5 A	15.0 A	15.0 A
Rated AC voltage	1 / N / PE, 220 / 230 / 240 V							
Rated AC frequency	50 Hz / 60 Hz							
AC frequency range ^③	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	96.0%			97.0%				
ENVIRONMENT LIMIT								
Ingress protection	IP66							
Operation temperature range	-25 ~ 60°C (> 45°C derating)							
Max. operation altitude	4000 m							
Relative humidity	4 ~ 100% RH (condensing)							
Overvoltage category	Mains: III, PV: II							
GENERAL								
Dimensions (W × H × D)	290 × 206 × 120 mm							
Net weight	5.2 kg					5.5 kg		
Cooling concept	Natural cooling							
Communication interfaces	RS 485, DRM, meter / CT (optional)							
Power consumption (night)	< 1 W							
Topology	Non-isolated							
Certifications	EN / IEC62109-1/ 2, IEC61727, EN50549, G98 G99, AS 4777.2, VDE4105, CEI 0-21, VFR							
AC auxiliary power supply (APS)	Optional							
PROTECTION								
Protection	Over / under voltage protection, DC isolation protection, Grid monitoring, DC injection monitoring, DC reverse-polarity protection, Back feed current monitoring, Residual current detection, Over temperature protection, Monitoring ground fault protection, String fault detection, AC overcurrent protection, AC short-circuit 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 The two data refer to different grid voltage 220V/230V

③ The AC frequency range may vary from different country codes