

Single-phase Residential On-grid Inverter



X1-MINI G4

0.6kW / 0.7kW / 0.8kW / 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	1.6 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		
MPPT voltage range ^②	40 ~ 450 V						40 ~ 550 V		
Start up voltage	50 V								
No. of MPPT trackers / strings per MPPT 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	800 W	1100 W	1500 W	2000 W	2500 W	3000 W	3300 W
Rated output current ^③	2.6 A	3.1 A	3.5 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	800 VA	1210 VA	1650 VA	2200 VA	2750 VA	3300 VA	3300 VA
Max. output continuous current ^③	3.0 A	3.5 A	3.7 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 ^④	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	0 ~ 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 Input voltage exceeding the MPPT voltage range may trigger inverter protection

③ The two data refer to different grid voltage 220V/230V

④ The AC frequency range may vary from different country codes