

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
- Global MPP tracking with shade optimization

Intelligent Design

- 10s data refresh on SolaX Cloud
- I-V curve diagnosis

Assured Safety

- Type II SPD on AC&DC side
- Ready for Rapid Shutdown function
- AFCI support (optional)
- Built-in export control function

Flexible Adaptability

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

X1-MINI-0.6K-G4 X1-MINI-0.7K-G4 X1-MINI-0.8K-G4 X1-MINI-1.1K-G4 X1-MINI-1.5K-G4 X1-MINI-2.0K-G4 X1-MINI-2.5K-G4 X1-MINI-3.0K-G4 X1-MINI-3.3K-G4

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		
Nominal PV input voltage	360 V								
Operating 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 ^④	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
Nominal AC voltage	1 / N / PE, 220 / 230 / 240 V								
Nominal AC frequency	50 Hz / 60 Hz								
AC frequency range ^⑤	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								
Operating ambient temperature range ^⑥	-25 ~ 60°C								
Max. operating altitude ^⑥	4000 m								
Relative humidity	0 ~ 100%								
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	Nature cooling								
Communication interfaces	RS485, DRM, Meter / CT (Optional)								
Power consumption (night)	< 1 W								
Topology	Non-isolated								
Certificates and approvals	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 (75~125kW models) or 500V/540V (136~150kW models)
 ④ The AC frequency range may vary from different country codes
 ⑤ Derating above +45°C
 ⑥ Derating above 3000 m

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 startup voltage
- Built-in export control



Assured Safety

- Type II SPD on AC&DC side
- Ready for Rapid Shutdown function
- AFCI support (optional)
- Built-in export control function



Intelligent Design

- 10s data refresh on SolaX Cloud
- Easy configuration via WiFi & App
- I-V Curve diagnosis



Flexible Adaptability

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

X1-BOOST-2.5K-G4 X1-BOOST-3K-G4 X1-BOOST-3.3K-G4 X1-BOOST-3.6K-G4 X1-BOOST-4K-G4 X1-BOOST-4.2K-G4 X1-BOOST-5K-G4 X1-BOOST-6K-G4

	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							
Nominal PV input voltage	360 V							
Operating voltage range	35 ~ 600 V							
MPPT voltage range ^②	40 ~ 560 V							
Start-up voltage	50 V							
No. of MPPT trackers / Strings per MPPT tracker	2 / (1 / 1)							
Max. input current per MPPT(MPPT1/2)	16 A / 16 A							
Max. input short circuit current per MPPT(MPPT1/2)	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
Nominal AC voltage	1 / N / PE, 220 / 230 / 240 V							
Nominal 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							
Operating ambient temperature range	-25 ~ 60°C							
Max. operating altitude	4000 m							
Relative humidity	0 ~ 100%RH (condensing)							
Overvoltage Category	Mains: III, PV: II							
	GENERAL							
Dimensions (W x H x D)	404 x 274 x 146 mm							
Net weight	11.0 kg						11.5 kg	
Cooling concept	Nature cooling							
Communication interfaces	RS485, DRM, Optional: Meter, CT							
Power consumption (night)	< 3 W							
Topology	Non-isolated							
Certificates and approvals	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							

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 (4600 for VDE4105, 4999 for AS4777.2)

④ 17.4(16 For G98)

⑤ 4048 (3680 For G98/G99, TOR and PPDS)

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

⑦ 17.6 (16 For G98/G99, TOR and PPDS)

⑧ 17.4(16 For G98)

⑨ 21.7 (20 for VDE4105)

⑩ The AC frequency range may vary from different country codes

Single-phase Residential On-grid Inverter



X1-SMART-G2

5kW / 6kW / 7kW / 8kW
9kW / 10kW



High Efficiency

- 3 MPP trackers for multi-orientation
- Max. 20A PV input current
- 200% PV oversizing & 110% AC overloading
- Built-in global MPP scan



Assured Safety

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



Intelligent Design

- Plug-and-Play communication terminal
- 10s data refresh interval & 24h consumption monitoring
- I-V Curve diagnosis



Flexible Adaptability

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

	X1-SMT-5K-G2	X1-SMT-6K-G2	X1-SMT-7K-G2	X1-SMT-8K-G2	X1-SMT-9K-G2	X1-SMT-10K-G2
PV INPUT						
Max. recommended PV array power	10 kWp	12 kWp	14 kWp	16 kWp	18 kWp	20 kWp
Max. PV input voltage ^①	600 V					
Nominal PV input voltage	360 V					
Operating 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	3 / (1 / 1 / 1)					
Max. input current per MPPT	20 A / 20 A / 20 A					
Max. input short circuit current per MPPT	25 A / 25 A / 25 A					
AC OUTPUT						
Rated output power	4999 W	6000 W	7000 W	8000 W	9000 W	9999 W
Rated output current	21.8 A	26.1 A	30.5 A	34.8 A	39.2 A	43.5 A
Max. output apparent power	4999 VA	6600 VA	7700 VA	8800 VA	9900 VA	9999 VA
Max. output continuous current	22.8 A	30.0 A	35.0 A	40.0 A	45.0 A	45.5 A
Nominal AC voltage	1 / N / PE, 220 / 230 / 240 V					
Nominal 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	98.2%					
European efficiency	97.5%					
ENVIRONMENT LIMIT						
Ingress protection	IP66					
Operating ambient temperature range	-25 ~ 60°C					
Max. operating altitude	4000 m					
Relative humidity	0 ~ 100%RH (condensing)					
Overvoltage Category	Mains: III, PV: II					
GENERAL						
Dimensions (W × H × D)	515 × 370 × 170 mm					
Net weight	19.5 kg					
Cooling concept	Nature cooling					
Communication interfaces	RS485, DRM, CT, Meter, WiFi, LAN, 4G, WiFi+LAN, WiFi+4G					
Power consumption (night)	< 3 W					
Topology	Non-isolated					
Certificates and approvals	IEC/EN 62109-1/-2, AS 4777.2:2020, G99, INMETRO, IEC61727					
PROTECTION						
Protection	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Residual current detection, Anti-islanding protection, Over temperature protection, DC reverse-polarity protection					
Active anti-islanding method	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 AC frequency range may vary from different country codes

Three-phase Residential On-grid Inverter



X3-MIC G2

3.0kW / 4.0kW / 5.0kW / 6.0kW
8.0kW / 10.0kW / 12.0kW / 15.0kW

High Efficiency

- Up to 98.3% efficiency
- 32A per MPP tracker
- 200% DC oversizing & 110% AC overloading output
- Built-in global MPP scan
- Low startup voltage & ultra-wide MPPT range

Intelligent Design

- IP66 protection degree
- Ultra-high power density
- 24h monitoring (WiFi/LAN/4G)
- Smart loads management (e.g., heat pump, smart EV charger)

Assured Safety

- Type II SPD on AC&DC side (optional)
- AFCI support (optional)

Flexible Adaptability

- Built-in export power control function

X3-MIC-3K-G2 X3-MIC-4K-G2 X3-MIC-5K-G2 X3-MIC-6K-G2 X3-MIC-8K-G2 X3-MIC-10K-G2 X3-MIC-12K-G2 X3-MIC-15K-G2

PV INPUT								
	6 kWp	8 kWp	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp
Max. recommended PV array power	6 kWp	8 kWp	10 kWp	12 kWp	16 kWp	20 kWp	24 kWp	30 kWp
Max. PV input voltage ^①	1000 V							
Nominal PV input voltage	640 V							
Operating voltage range	100 ~ 985 V							
MPPT voltage range ^②	120 ~ 980 V							
Start-up voltage	150 V							
No. of MPP trackers / Strings per MPP tracker	2 / (1 / 1)				2 / (1 / 1) ^③		2 / (2 / 1)	
Max. input current per MPPT(MPPT1/2)	16 A / 16 A				16 A / 16 A ^③		32 A / 16 A	
Max. input short circuit current per MPPT(MPPT1/2)	20 A / 20 A				20 A / 20 A ^③		40 A / 20 A	
AC OUTPUT								
Rated output power	3000 W	4000 W	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W
Rated output current	4.6 A	6.1 A	7.6 A	9.1 A	12.2 A	15.2 A	18.2 A	22.7 A
Max. output apparent power	3300 VA	4400 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA	15000 VA
Max. output continuous current	4.8 A	6.4 A	8.0 A	9.6 A	12.8 A	16.0 A	19.1 A	22.7 A
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V							
Nominal 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	98.3%							
European efficiency	97.8%							
ENVIRONMENT LIMIT								
Ingress protection	IP66							
Max. operating altitude	4000 m							
Relative humidity	0 ~ 100% RH (condensing)							
Overvoltage Category	Mains: III / PV: II							
GENERAL								
Dimensions (W × H × D)	342 × 434 × 144.5 mm				342 × 434 × 156 mm			
Net weight	15.5 kg				17.0 kg		18.0 kg	
Cooling concept	Nature cooling				Smart cooling			
Communication interfaces	RS485/DRM, Optional: Meter							
Power consumption (night)	< 3 W							
Topology	Non-isolated							
Certificates and approvals	VDE4105, EN 50549, AS 4777.2, VDE4105, G98/G99, IEC 61727, IEC 62116, IEC 61683, IEC 60068, EN 50530, NB/T 32004, IEC/EN 62109-1, IEC/EN 62109-2							
AC auxiliary power supply (APS)	Optional							
PROTECTION								
Protections	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Residual current detection, Over temperature protection, AC overcurrent protection, AC short-circuit protection							
Active anti-islanding method	Frequency shift							
Surge protection (DC / AC)	Type II / Type II(Optional)							
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 Input 1 is optional with two strings(Max. input current: 32A, Max. short circuit current: 40A)

④ The AC frequency range may vary from different country codes

Three-phase Residential On-grid Inverter



X3-PRO G2

8kW/10kW/12kW/15kW
17kW/20kW/25kW/30kW



High Efficiency

- Up to 98.5% efficiency
- 32A per MPP tracker
- 150% DC oversizing & 110% AC overloading output
- Built-in global MPP scan
- Low startup voltage & ultra-wide MPPT range



Intelligent Design

- IP66 protection degree
- Ultra-high power density
- 24h monitoring (WiFi/LAN/4G)
- Smart loads management (e.g., heat pump, smart EV charger)



Assured Safety

- Type II SPD on AC&DC side
- AFCI support (optional)*



Flexible Adaptability

- Built-in export power control function

X3-PRO-8K-G2 X3-PRO-10K-G2 X3-PRO-12K-G2 X3-PRO-15K-G2 X3-PRO-17K-G2 X3-PRO-20K-G2 X3-PRO-25K-G2 X3-PRO-30K-G2

PV INPUT								
Max. recommended PV array power	12.0 kWp	15.0 kWp	18.0 kWp	22.5 kWp	25.5 kWp	30.0 kWp	37.5 kWp	45.0 kWp
Max. PV input voltage ^①	1100 V							
Nominal PV input voltage	650 V							
Operating voltage range	135 ~ 985 V							
MPPT voltage range ^②	160 ~ 980 V							
Start-up voltage	200 V							
No. of MPP trackers / Strings per MPP tracker	2 / (2 / 2)						3 / (2 / 2 / 2)	
Max. input current per MPPT	32 A							
Max. input short circuit current per MPPT	40 A							
AC OUTPUT								
Rated output power	8 kW	10 kW ^④	12 kW	15 kW ^⑤	17 kW	20 kW	25 kW	30 kW ^⑥
Rated output current	12.2 A	15.2 A	18.2 A	22.8 A	25.8 A	30.3 A	37.9 A	45.5 A
Max. output apparent power	8.8 kVA	11.0 kVA ^④	13.2 kVA	16.5 kVA ^⑤	18.7 kVA	22.0 kVA	27.5 kVA	30.0 kVA ^⑥
Max. output continuous current	13.2 A	16.0 A	19.3 A	24.2 A	27.5 A	33.6 A	41.8 A	45.5 A
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V							
Nominal 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	98.2%			98.3%			98.5%	
European efficiency	97.7%			97.8%			98.0%	
ENVIRONMENT LIMIT								
Ingress protection	IP66							
Operating ambient temperature range	-30 ~ 60°C							
Max. operating altitude	4000 m							
Relative humidity	0 ~ 100 % RH (condensing)							
Overvoltage Category	Mains: III / PV: II							
GENERAL								
Dimensions (W × H × D)	482 × 417 × 186 mm							
Net weight	24.5 kg			26.0 kg			28.0 kg	
Cooling concept	Nature cooling			Smart cooling				
Communication interfaces	RS485/DRM, Optional: Meter							
Power consumption (night)	< 3 W							
Topology	Non-isolated							
Certificates and approvals	VDE4105, EN 50549, AS 4777.2, IEC 61727, IEC 62116, IEC 61683, IEC 60068, EN 50530, NB/T 32004, IEC/EN 62109-1, IEC/EN 62109-2							
AC auxiliary power supply (APS)	Optional							
PROTECTION								
Protections	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Residual current detection, Over temperature protection, AC overcurrent protection, AC short-circuit protection							
Active anti-islanding method	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 AC frequency range may vary from different country codes

④ 9999 for AS4777.2

⑤ 14999 for AS4777.2

⑥ 29999 for AS4777.2

