

SOLAX X1-SMART G2 Smart Single Phase Inverter



SOLAX X1-SMART G2 Smart Single Phase Inverter Owner's Manual

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SOLAX X1-SMART G2 Smart Single Phase Inverter



Specifications

- Model: X1-SMART G2
- Power Output: 9999W
- Available Variants: 5KW, 6kW, 7kW, 8kW, 9kW, 10kW
- Max. PV Input Current: 20A
- AC Voltage Range: 220/230/240V (90-290V)
- Power Factor: 0.8 leading to 0.8 lagging

Product Usage Instructions

Installation

1. Ensure proper orientation for installation and connect to the power source.
2. Make sure to follow the electrical guidelines provided in the user manual.

Operation and Monitoring

- Use the user-friendly plug-and-play communication terminal for convenient operation.
- Monitor the system's performance and consumption using the Cloud interface with a 10s data refresh interval.
- Check for any panel issues through the I-V curve scan and report feature.

Safety Precautions

- Consider adding optional safety features like external RSD and DC AFCI protection for enhanced safety.

- Ensure proper grounding and protection against overloading.

FAQ

- **Q: Can I install multiple units of X1-SMART G2 in parallel?**

A: Yes, you can install multiple units in parallel for a larger system setup.

- **Q: What is the recommended PV input current for this product?**

A: The maximum PV input current supported is 20A.

- **Q: How can I contact Solax for more information?**

A: You can visit their website or call the provided contact numbers based on your location.

X1-SMART G2

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

Features

Advanced performance

- 3 MPP trackers for multi-orientation installation
- Max. PV input current 20A compatible with advanced
- high-power panels
- 200% PV oversizing, and 110% AC overloading

User-friendly O&M

- Super convenient and quick plug-play communication terminal
- Aluminum AC wires supported
- 10s data refresh interval with new Cloud interface
- 24h consumption monitoring

Adaptable and Multifunctional

- Multiple units in parallel for larger system
- Global MPP scan to yield more
- Fast I-V curve scan and report for earlier panel issue diagnosis
- Home EV Charger and Heat Pump Solution adaptable

Robust safety protection

- Optional external RSD (Rapid Shut Down) and integrated DC
- AFCI protection (Optional)
- DC/AC both sides SPD2 protection (Optional modules to meet
- certification IEC/EN61643)
- Support 2030.5 and flexible control

Contact Us for More Information

www.solaxpower.com

Global: +86 571-56260008

AU: +61 1300 476529

DE: +49 6142 4091664

UK: +44 2476 586998

NL: +31 (0) 852 737932

X1-SMART G2

X1-SMT-5K-G2 X1-SMT-6K-G2 X1-SMT-7K-G2 X1-SMT-8K-G2 X1-SMT-9K-G2 X1-SMT-10K-G2

DC INPUT

Max. PV input power [Wp]	10000	12000	14000	16000	18000	20000
Max. PV input voltage [V]	600					
Start-up voltage [V]	50					
Nominal input voltage [V]	360					
MPPT voltage range [V]	40~560					
No. of MPP trackers / Strings per MPP tracker	3/1					
Max. PV input current[A]	20					
Max. input short circuit current Isc [A]	25					

AC OUTPUT

Rated AC output power [W]	4999	6000	7000	8000	9000	9999
Max. AC output apparent power [VA]	4999	6600	7700	8800	9900	9999
Rated AC output current [A]	21.8	26.1	30.5	34.8	39.2	43.5
Max. AC output current [A]	22.8	30	35	40	45	45.5
Nominal AC voltage/Grid voltage range [V]	220/230/240; (90~290 V)					
Nominal grid frequency/Grid frequency range [Hz]	50/60; ± 5					
Power Factor range	0.8 leading ~ 0.8 lagging					
THDi (Rated power) [%]	<3					

SYSTEM DATA

Max. Efficiency [%]	98.1
European weighted efficiency [%]	97.3
Standby consumption (night) [W]	<3
Ingress protection	IP66
Operating ambient temperature range [°C]	-25~60
Max. operating altitude [m]	4000
Relative humidity [%]	0~100
Typical noise emission [dB]	<30
Dimensions(WxHxD) [mm]	515x370x170
Net weight [kg]	18.5
Cooling concept	Natural cooling
Communication interfaces	RS485/DRM/USB/CT/Meter*
Optional monitoring dongle	WiFi/LAN/4G/WiFi+LAN/WiFi+4G

PROTECTION

Over/under voltage protection	Yes
DC isolation protection	Yes
Monitoring ground fault protection	Yes
Grid monitoring	Yes
DC injection monitoring	Yes
Back feed current monitoring	Yes
Residual current detection	Yes
Anti-islanding protection	Yes
Over temperature protection	Yes
SPD(DC/AC)	Type II/Type II
Arc-fault circuit interrupter(AFCI)	Optional
AC auxiliary power supply(APS)	Optional
DC Switch	Yes


STANDARD

Safety	IEC/EN 62109-1/-2
EMC	EN61000-6-1/2/3/4, EN61000-3-2/3/11/12
Certification	AS 4777.2:2020, G99, INMETRO, IEC61727

*Please refer to the actual delivery for the Meter and CT

* V1.0. Information may be subject to modify without notice.

Documents / Resources



[SOLAX X1-SMART G2 Smart Single Phase Inverter](#) [pdf] Owner's Manual

X1-SMT-5K-G2, X1-SMART G2 Smart Single Phase Inverter, G2 Smart Single Phase Inverter, Single Phase Inverter, Phase Inverter, X1-SMT-6K-G2, X1-SMT-7K-G2, X1-SMT-8K-G2, X1-SMT-9K-G2, X1-SMT-10K-G2

References

- [SolaX Power: Solar Inverter, Battery System, EV Charger](#)
- [User Manual](#)

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