

X1-BOOST G4

SINGLE-PHASE
ON-GRID INVERTER
2.5~6kW



Features

Superior Performance

- DC Input: 200% oversizing, 16A current, 50V startup voltage
- In-built global MPP scan for higher yield efficiency

Superb Adaptability

- Home EV Charger and Heat Pump Solution adaptable
- Mass management and broad extension via Datahub
- Master/Slave parallel solution via Modbus supported

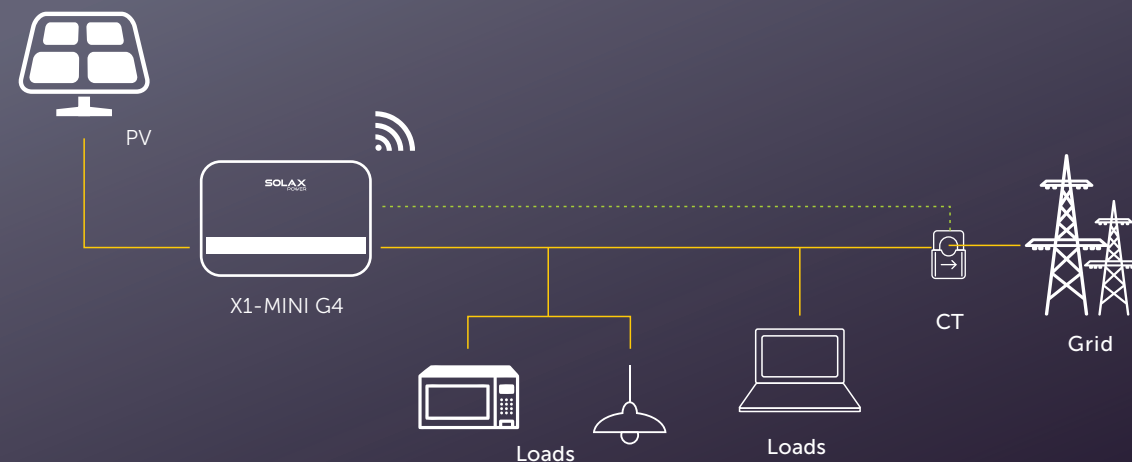
User Friendly Monitoring

- 10s level interval of data update(Optional, new WiFi dongle required)
- Quick and easy configuration (WiFi&APP)

Assured Safety & Reliability

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Optional external RSD (Rapid Shutdown) and integrated DC AFCI protection (Optional)
- In-built export control function

SOLUTION DESIGN



X1-BOOST G4

SINGLE-PHASE

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

DC INPUT

Max. PV array input power [Wp]	6000	6000	6600	7200	8000	10000	12000
Max. PV input voltage [V]	600	600	600	600	600	600	600
Startup voltage [V]	50	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360	360
MPP tracker voltage range [V]	40~560	40~560	40~560	40~560	40~560	40~560	40~560
No. of MPP trackers / String per MPP tracker	2 / 1						
Max. PV input current[A]	16 / 16						
Isc PV Array Short Circuit current [A]	22 / 22						

AC OUTPUT

Rated AC output power [W]	2500	3000	3300	3680	4200	5000 ^①	6000
Rated AC output current [A]	10.9	13.1	14.4	16	18.3	21.7	26.1
Max. AC output apparent power [VA]	2750	3300	3630	4048 ^④	4620	5000 ^②	6000
Max. AC output current [A]	12	14.4	15.8	17.6 ^③	20.1	21.7 ^③	27.3
Nominal AC voltage / AC voltage range [V] **	220/230/240;90~290						
Nominal AC frequency / AC frequency range [Hz] **	50/60;±5						
Power Factor range	0.8leading~0.8lagging						
THDi (rated power) [%]	<3						

SYSTEM DATA

Max. Efficiency [%]	98
Euro. Efficiency [%]	97
Standby consumption [W] @Night	<3
Ingress protection	IP66
Operating ambient temperature range [°C]	-25~60
Max. operation altitude [m]	4000
Relative humidity [%]	0~100
Typical noise emission [dB]	25 ^⑥
Storage temperature [°C]	-30~70
Dimensions (W x H x D) [mm]	404x274x146
Weight [kg]	11
Cooling concept	Nature cooling
Communication interfaces	USB/RS485/DRM, Optional: Meter/CT *
Optional monitoring dongle	Pocket WiFi/LAN/4G
Display	2 x LED + LCD (16 x 2) / APP

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 (Optional)
Arc-fault circuit interrupter (AFCI)	Optional
AC auxiliary power supply (APS)	Optional
DC Switch	Optional

STANDARD

Safety	IEC / EN 62109-1 / -2
EMC	EN61000-6-1 / 2 / 3 / 4, EN61000-3-2 / 3 / 11 / 12
Certification	IEC61727, EN50549, G98/G99, AS 4777.2, VDE4105, CEI 0-21, VFR, PPDS, TOR

① 5000 (4600 for VDE4105) ② 5000 (4600 for VDE4105) ③ 21.7 (20 for VDE4105) ④ 4048 (3680 For G98/G99, TOR and PPDS) ⑤ 17.6 (16 For G98/G99, TOR and PPDS)

⑥ For models with internal fan(Optional), typical noise emission is 30 dB

* Not included in the package. Please purchase additionally. ** The AC voltage and the frequency range may vary from different country codes.

* V1.2. Information may be subject to modify without notice.650.00029.00