

X1-MINI G4

SINGLE-PHASE
ON-GRID INVERTER
0.6~3.3kW



Features

Upgraded Performance

- DC Input: 200% oversizing, 16A current, 40~450V wider MPPT voltage range
- In-built global MPP scan for higher yields

Flexible Adaptability

- Adapt to Home EV Charger Solution
- Mass management and broad extension via Datahub
- Extendable parallel solution via Modbus supported

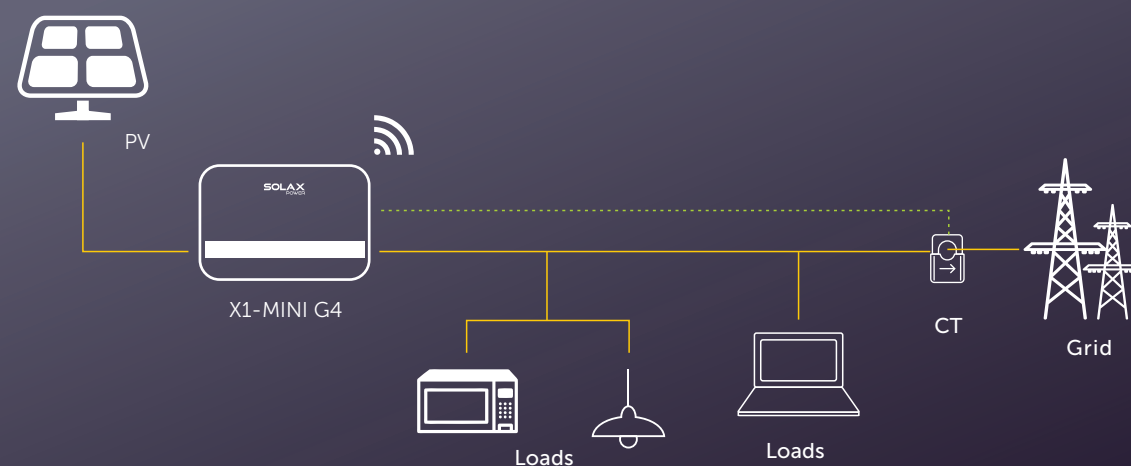
Advanced Safety

- AC/DC built-in Type II SPD (Optional) and I-V curve diagnosis supported
- Support external Rapid Shutdown device (RSD)
- Optional ARC detection (AFCI)
- Built-in export control function

Optimized Monitoring

- 10s level interval of data update (Optional)
- Multiple interfaces for presenting data

SOLUTION DESIGN



X1-MINI G4

SINGLE-PHASE

X1-MINI-0.6K-G4 X1-MINI-0.7K-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

DC INPUT	X1-MINI-0.6K-G4	X1-MINI-0.7K-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
Max. PV array input power [Wp]	1200	1400	2200	3000	4000	5000	6000	6600
Max. PV input voltage [V]	450	450	450	450	450	550	550	550
Startup voltage [V]	50	50	50	50	50	50	50	50
Nominal input voltage [V]	360	360	360	360	360	360	360	360
MPP tracker voltage range [V]	40~450	40~450	40~450	40~450	40~450	40~550	40~550	40~550
No. of MPP trackers / Strings per MPP tracker	1/1							
Max. PV input current [A]	16							
Isc PV Array Short Circuit current [A]	22							
AC OUTPUT								
Rated AC output power [W]	600	700	1100	1500	2000	2500	3000	3300
Rated AC output current [A]	2.6	3.1	4.8	6.5	8.7	10.9	13.1	14.4
Max. AC output apparent power [VA]	600	770	1210	1650	2200	2750	3300	3300
Max. AC output current [A]	3	3.5	5.5	7.5	10	12.5	15	15
Nominal AC voltage/AC voltage range [V]**	220/230/240;90~285				220/230/240;90~290			
Nominal AC frequency/AC frequency range [Hz]**	50/60;±5							
Power Factor range	0.8 leading~0.8 lagging							
THDi (Rated power) [%]	<3							
SYSTEM DATA								
Max. efficiency [%]	98	98	98	98	98	98	98	98
Euro. efficiency [%]	96	96	96	97	97	97	97	97
Standby consumption [W] @Night	<1							
Ingress protection	IP66							
Protection class	Class I							
Over voltage category	II (DC),III (AC)							
Operating ambient temperature range [°C]	-25~60							
Max. operation altitude [m]	<4000							
Humidity [%]	0~100							
Typical noise emission [dB]	25							
Storage temperature [°C]	-30~70							
Dimensions (WxHxD) [mm]	290x206x120							
Weight [kg]	5.2	5.2	5.2	5.2	5.2	5.5	5.5	5.5
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	EN/IEC62109-1/2							
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							

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

* V1.1. Information may be subject to modify without notice. 650.00030.00