

X3-MIC G2

THREE-PHASE
ON-GRID INVERTER
3~15kW



Features

High-efficiency

- Maximum efficiency is up to 98.3%
- Low startup voltage, ultrawide MPPT voltage range
- 200% oversizing, 110% overloading output (Except 15kW model)
- In-built global MPP scan for higher yield efficiency

Safe

- IP66 protection
- Integrated SPD protection on both AC&DC

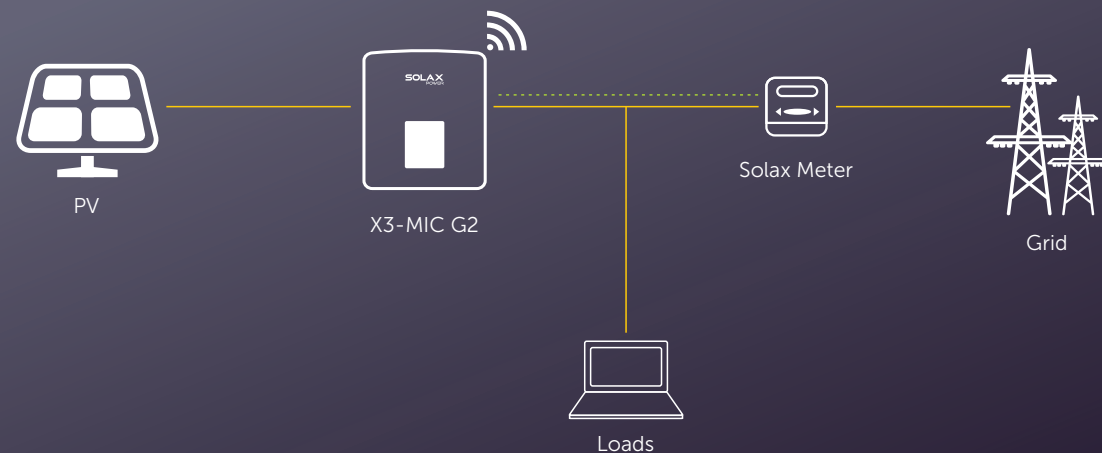
Smart

- Built-in export power control
- Remote setting and upgrading
- 24h monitoring and maintenance (Optional)
- Intelligent load management - heat pump (Adapter Box required)
- Multiple monitoring methods, Pocket Wi-Fi/LAN/4G (Optional)

Economic

- Ultra-high power density
- Maximum 16A DC input current per string, support high power solar panels

SOLUTION DESIGN



X3-MIC G2

THREE PHASE

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-10KW-G2 X3-MIC-12K-G2 X3-MIC-15K-G2

DC INPUT

Max. PV array input power [Wp]	6000	8000	10000	12000	16000	20000	20000	24000	30000
Max. PV input voltage [V]	1000	1000	1000	1000	1000	1000	1000	1000	1000
Startup voltage [V]	150	150	150	150	150	150	150	150	150
Nominal input voltage [V]	640	640	640	640	640	640	640	640	640
MPP tracker voltage range [V]	120~980	120~980	120~980	120~980	120~980	120~980	120~980	120~980	120~980
No. of MPP trackers/Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1) ^①	2(1/1)	2(2/1)	2(2/1)
Max. PV input current[A]	16/16	16/16	16/16	16/16	16/16	16/16 ^①	16/16	32/16	32/16
Isc PV Array Short Circuit current [A]	20/20	20/20	20/20	20/20	20/20	20/20 ^①	20/20	40/20	40/20

AC OUTPUT

Rated AC output power [W]	3000	4000	5000	6000	8000	10000	10000	12000	15000
Rated AC output current [A]*	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	15.2/14.5	18.2/17.4	22.7/21.8
Max. AC output apparent power [VA]	3300	4400	5500	6600	8800	11000	10000	13200	15000
Max. AC output current [A]	4.8	6.4	8.0	9.6	12.8	16.0	15.2	19.1	22.7
Nominal AC voltage/AC voltage range [V]**	220/380V, 230/400V, 3/N/PE; (95-285V)*								
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 [%]	98.3								
Euro efficiency [%]	97.8								
Standby consumption (night) [W]	<3								
Ingress protection	IP66								
Operating ambient temperature range [°C]	-30~+60(Derating above 45)								
Max. operation altitude [m]	4000(Derating above 3000)								
Relative humidity [%]	0~100								
Typical noise emission [dB]	<30	<30	<30	<30	<45	<45	<45	<50	<50
Storage temperature [°C]	-30~+60								
Dimensions (WxHxD) [mm]	342*434*144.5						342*434*156		
Weight [kg]	15.5	15.5	15.5	15.5	17	17	17	18	18
Cooling concept	Natural cooling						Smart fan cooling		
Communication interfaces	USB/RS485/DRM, Optional: Meter								
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
DC reverse 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 / T type II
Arc-fault circuit interrupter(AFCI)	Optional
AC auxiliary power supply(APS)	Optional

STANDARD

Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004
EMC	IEC/EN 61000; NB/T 32004
Certification	VDE4105; EN 50549; AS 4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004

① Input 1 is optional with two strings(Max. input current: 32A, Max. short circuit current: 40A)

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

** The AC voltage and the frequency range may vary from different country codes

*V2.5. Information may be subject to modify without notice. 650.00003.00