

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 98.5% efficiency
- Max. 16A MPP current per string
- 150% DC oversizing & 110% AC overloading output



Assured Safety

- SPD Type II
- In-built global MPP scan
- ARC protection (Optional)



Intelligent Design

- IP66 protection
- Ultra-high power density
- 24h monitoring (WiFi/LAN/4G)



Flexible Adaptability

- Low startup voltage & ultra-wide MPPT range
- Built-In export power control
- Intelligent load management for heat pump

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								
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) ^④		2 / (1 / 1)	
Max. input current per MPPT(MPPT1/2)	16 A / 16 A				16 A / 16 A ^④		32 A / 16 A	
Max. input short circuit current per MPPT(MPPT1/2)	20 A / 20 A				20 A / 20 A ^④		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 ^③	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	15 000 VA
Max. output continuous current	4.8 A	6.4 A	8.0 A	9.6 A	12.8 A	16 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 ^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	98.3%							
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 x H x D)	342 x 434 x 144.5 mm				342 x 434 x 156 mm			
Net weight	15.5 kg				17 kg		18 kg	
Cooling concept	Natural 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; NB/T 32004							
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							
AC auxiliary power supply (APS)	Optional							

①The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter

②Input voltage exceeding the MPPT voltage range may trigger inverter protection

③The AC frequency range may vary from different country codes

④ Input 1 is optional with two strings(Max. input current: 32A, Max. short circuit current: 40A)

⑤The two data refer to different grid voltage 220V/230V