MIC 600~3300TL-X2

- Maximum efficiency of 97.6%
- Compact design
- Touch key& OLED display
- Flexible monitoring options
- String current up to 16A
- AFCI optional



POWER-ING TOMO-RROW

GROWATT

en.growatt.com

Datasheet	MIC 600TL-X2	MIC 750TL-X2	MIC 800TL-X2	MIC 1000TL-X2	MIC 1500TL-X2	MIC 2000TL-X2	MIC 2500TL-X2	MIC 3000TL-X2	MIC 3300TL-X2
Input data (DC)									
Max. recommended PV power (for module STC)	900W	1120W	1200W	1500W	2250W	3000W	3750W	4500W	4950W
Max. DC voltage	500V	500V	500V	500V	500V	500V	550V	550V	550V
Start voltage	50V	50V	50V	50V	50V	50V	50V	50V	50V
Nominal voltage	120V	120V	120V	180V	250V	360V	360V	360V	360V
MPP voltage range	50V-500V	50V-500V	50V-500V	50V-500V	50V-500V	50V-500V	50V-550V	50V-550V	50V-550V
No. of MPP trackers	1								
No. of PV strings per MPP tracker	1								
Max. input current per MPP tracker	16A								
Max. short-circuit current per MPP tracker	24A								
Output data (AC)									
AC nominal power	600W	750W	800W	1000W	1500W	2000W	2500W	3000W	3300W
Max. AC apparent power	600VA	750VA	800VA	1000VA	1500VA	2000VA	2500VA	3000VA	3300VA
Nominal AC voltage(range*)	230V(180-280V)								
AC grid frequency(range*)	50/60 Hz (45-55Hz/55-65 Hz)								
Max. output current	2.9A	3.6A	3.8A	4.8A	7.1A	9.5A	11.9A	14.3A	14.3A
Adjustable power factor	0.8leading...0.8lagging								
THDi	<3%								
AC grid connection type	Single phase								
Efficiency									
Max.efficiency	96.5%	97.4%	97.4%	97.4%	97.4%	97.4%	97.6%	97.6%	97.6%
European efficiency	95.5%	96.5%	96.5%	96.5%	97.0%	97.0%	97.0%	97.1%	97.1%
MPPT efficiency	99.9%								
Protection devices									
DC reverse polarity protection	Yes								
DC switch	Yes								
AC/DC surge protection	Type III / Type III								
Insulation resistance monitoring	Yes								
AC short-circuit protection	Yes								
Ground fault monitoring	Yes								
Grid monitoring	Yes								
Anti-islanding protection	Yes								
Residual-current monitoring unit	Yes								
AFCI protection	Optional								
General data									
Dimensions (W / H / D)	274/254/138mm								
Weight	6kg	6kg	6kg	6kg	6kg	6.2kg	6.2kg	6.2kg	6.2kg
Operating temperature range	-30°C ... +60°C								
Nighttime power consumption	< 0.5W								
Topology	Transformerless								
Cooling	Natural convection								
Protection degree	IP66								
Relative humidity	100%								
Altitude	4000m								
DC connection	H4/MC4(Optional)								
AC connection	Connector								
Display	OLED+LED/WIFI+APP								
Interfaces: RS485/USB/WiFi/ GPRS/RF/LAN	Yes/Yes/Optional/Optional/Optional/Optional								
Warranty: 5 years / 10 years	Yes/Optional								
Communication	SUNSPEC protocol								

CE, UKCA, AS4777, AS/NZS 3100, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, VFR 2019, EN50549-1, IEC 60068, IEC 61683, IEC 62116, IEC 61727, INMETRO, G98, C10/C11, UNE217001, UNE206007, PO12.2

* The AC Voltage Range may vary depending on specific country grid standard.
* All specifications are subject to change without notice.

SHENZHEN GROWATT NEW ENERGY CO.,LTD.
T: + 86 755 2747 1900 F: + 86 755 2749 1460
A: 4-13/F,Building A,Sino-German(Europe)Industrial Park,Hangcheng Ave,Bao'an District,Shenzhen,China
E: info@growatt.com

Certificate of Conformity

Certificate Number: CN-PVES-250300

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Shenzhen Growatt New Energy Co., Ltd 4-13/F, Building A, Sino-German (Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China
Product:	PV Grid inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	MIC 600TL-X, MIC 750TL-X, MIC 800TL-X, MIC 1000TL-X,MIC 1500TL-X, MIC 2000TL-X, MIC 2500TL-X, MIC 3000TL-X,MIC 3300TL-X, MIC 600TL-X2, MIC 750TL-X2, MIC 800TL-X2, MIC 1000TL-X2, MIC 1500TL-X2, MIC 2000TL-X2, MIC 2500TL-X2, MIC 3000TL-X2, MIC 3300TL-X2.
Brand Name<s>:	GROWATT
Product Complies with:	EN 50549-1:2019+A1:2023, Requirements for generating plants to be connected in parallel with distribution networks Part 1: Connection to a LV distribution network - Generating plants up to and including type B EN 50549-10:2022, Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units Type approval for type A and B
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	250506112GZU-001, July 22, 2025

According to Annex H of the standard EN 50549-1, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with.

Additional information in Appendix.

Signature

Certification Manager: Grady Ye
Date: 30 July 2025

01886

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250300

Model	MIC 600TL-X	MIC 750TL-X	MIC 800TL-X	MIC 1000TL-X
Input				
Max. DC input Voltage:	500Vdc			
Max. input current:	13A			
PV Isc	16A			
DC input range:	50-500Vdc			
Output				
Nominal AC output voltage:	230Vac			
Nominal frequency:	50Hz			
Nominal output power:	600W	750W	800W	1000W
Max apparent power	600VA	750VA	800VA	1000VA
Max AC output current:	2.9A	3.6A	3.8A	4.8A
Power factor:	0.8 Leading to 0.8 Lagging			
Ingress protection:	IP65			
Protection Class:	Class I			
Operation Ambient Temp	-25℃ to +60℃			
Software Version	GH1.0			

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250300

Model	MIC 1500TL-X	MIC 2000TL-X	MIC 2500TL-X	MIC 3000TL-X	MIC 3300TL-X
Input					
Max. DC input Voltage:	500Vdc		550Vdc		
Max. input current:	13A				
PV Isc	16A				
DC input range:	50-500Vdc		65-550Vdc		
Output					
Nominal AC output voltage:	230Vac				
Nominal frequency:	50Hz				
Nominal output power:	1500W	2000W	2500W	3000W	3300W
Max apparent power	1500VA	2000VA	2500VA	3000VA	3300VA
Max AC output current:	7.1A	9.5A	11.9A	14.3A	14.3A
Power factor:	0.8 Leading to 0.8 Lagging				
Ingress protection:	IP65				
Protection Class:	Class I				
Operation Ambient Temp	-25°C to +60°C				
Software Version	GH1.0				

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250300

Model	MIC 600TL-X2	MIC 750TL-X2	MIC 800TL-X2	MIC 1000TL-X2	MIC 1500TL-X2
Input					
Max. DC input Voltage	500Vdc				
DC input range	50-500Vdc				
Max. input current	16A				
Max. short-circuit current	24A				
Output					
Nominal AC output voltage	230Vac				
Nominal frequency	50Hz				
Nominal output power:	600W	750W	800W	1000W	1500W
Max apparent power	600VA	750VA	800VA	1000VA	1500VA
Max AC output current	2.9A	3.6A	3.8A	4.8A	7.1A
Power factor	0.8 Leading to 0.8 Lagging				
Ingress protection	IP66				
Protection Class	Class I				
Operation Ambient Temp	-30°C to +60°C				
Software Version	GH1.0				

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250300

Model	MIC 2000TL-X2	MIC 2500TL-X2	MIC 3000TL-X2	MIC 3300TL-X2
Input				
Max. DC input Voltage	500Vdc	550Vdc		
DC input range	50-500Vdc	50-550Vdc		
Max. input current	16A			
Max. short-circuit current	24A			
Output				
Nominal AC output voltage	230Vac			
Nominal frequency	50Hz			
Nominal output power:	2000W	2500W	3000W	3300W
Max apparent power	2000VA	2500VA	3000VA	3300VA
Max AC output current	9.5A	11.9A	14.3A	14.3A
Power factor	0.8 Leading to 0.8 Lagging			
Ingress protection	IP66			
Protection Class	Class I			
Operation Ambient Temp	-30°C to +60°C			
Software Version	GH1.0			

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250300

Interface protection settings according to EN 50549-1			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59>>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage		50%-120% adjustable, 85%Un≤ U≤1.10Un default	
Starting to generate electrical power		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.1Hz default	
Reconnection settings for frequency		47Hz – 52Hz adjustable, 49.5Hz≤ U≤50.2Hz default	
Observation time		10s-60s adjustable, 60s default	
Active power increase gradient		6%-3000%/min adjustable, 10%/min default	
Permanent DC injection		0.5% of rated inverter output	
Loss of mains according t0 EN 62116		Within 2s	

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.