



Download
Manual



🔍 Growatt New Energy

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GR-UM-196-A-03

Technical Data

Specification

Model Specifications	MIC 600TL-X	MIC 750TL-X	MIC 1000TL-X	MIC 1500TL-X
Input data(DC)				
Max. recommended PV power(for module STC)	840W	1050W	1400W	2100W
Max. DC voltage	500V			
Start voltage	50V			
Nominal voltage	360V			
MPP voltage range	50V-500V			
MPP voltage range at Full Power	55V-450V	65V-450V	85V-450V	130V-450V
No. of MPP trackers	1			
No. of PV strings per MPP trackers	1			
Max. input current per MPP trackers	13A			
Max. short-circuit current per MPP trackers	16A			
DC overvoltage category	Category II			
Output data(AC)				
AC nominal power	600W	750W	1000W	1500W
Max. AC apparent power	600VA	750VA	1000VA	1500VA
Nominal AC voltage/range*	230V/180~280V			
AC grid frequency/range	50-60Hz/44-55Hz;54-65Hz			
Max. output current	2.9A	3.6A	4.7A	7.1A
Inrush current	<10A			
Max output fault current	66A			
Max output overload protection	10A	10A	10A	10A
Backfeed current	0A			
Power factor(@nominal power)	>0.99			

Adjustable power factor	0.8leading... 0.8lagging			
THDi	<3%			
AC grid connection type	Single phase			
AC overvoltage category	Category III			
Efficiency				
Max. efficiency	96.5%	97.4%	97.4%	97.4%
Euro-eta	96.0%	96.5%	96.5%	97.0%
Protection devices				
DC reverse-polarity protection	Integrated			
DC switch	Integrated			
DC Surge protection	Type III			
Insulation resistance monitoring	Integrated			
AC surge protection	Type III			
AC short-circuit protection	Integrated			
Ground fault monitoring	Integrated			
Grid monitoring	Integrated			
Anti-islanding protection	Integrated			
Residual-current monitoring unit	Integrated			
General data				
Dimensions (W / H / D) in mm	274*254*138			
Weight	6.0 kg			
Operating temperature range	- 25 °C ... +60 °C			
Noise emission (typical)	≤ 25 dB(A)			
Altitude	4000m			
Internal consumption at night	<0.5W			
Topology	transformerless			
Cooling	Natural convection			
Protection degree	IP65			
Relative humidity	0~100%			
DC connection	VP-D4/MC4(Optional)			
AC connection	AC connector			
Interfaces				

Display	OLED+LED
RS485/USB	Integrated
WIFI/GPRS/4G/LAN/ RF	Optional
Warranty:5/10 years	Yes/ Optional

Model Specifications	MIC 2000TL-X	MIC 2500TL-X	MIC 3000TL-X	MIC 3300TL-X
Input data(DC)				
Max. recommended PV power(for module STC)	2800W	3500W	4200W	4290W
Max. DC voltage	550V			
Start voltage	80V			
Nominal voltage	360V			
MPP voltage range	65V-550V			
MPP voltage range at Full Power	170V-450V	200V-500V	250V-500V	270V-500V
No. of MPP trackers	1			
No. of PV strings per MPP trackers	1			
Max. input current per MPP trackers	13A			
Max. short-circuit current per MPP trackers	16A			
DC overvoltage category	Category II			
Output data(AC)				
AC nominal power	2000W	2500W	3000W	3300W
Max. AC apparent power	2000VA	2500VA	3000VA	3300VA
Nominal AC voltage/range*	230V/180~280V			
AC grid frequency/range	50-60Hz/44-55Hz;54-65Hz			
Max. output current	9.5A	11.9A	14.3A	14.3A
Inrush current	<10A			

Max output fault current	66A			
Max output overload protection	16A			
Backfeed current	0A			
Power factor(@nominal power)	>0.99			
Adjustable power factor	0.8leading... 0.8lagging			
THDi	<3%			
AC grid connection type	Single phase			
AC overvoltage category	Category III			
Efficiency				
Max. efficiency	97.4%	97.6%	97.6%	97.6%
Euro-eta	97.0%	97.0%	97.1%	97.1%
Protection devices				
DC reverse-polarity protection	Integrated			
DC switch	Integrated			
DC Surge protection	Type III			
Insulation resistance monitoring	Integrated			
AC surge protection	Type III			
AC short-circuit protection	Integrated			
Ground fault monitoring	Integrated			
Grid monitoring	Integrated			
Anti-islanding protection	Integrated			
Residual-current monitoring unit	Integrated			
General data				
Dimensions (W / H / D) in mm	274*254*138			
Weight	6.0kg	6.2kg		
Operating temperature range	- 25 °C ... +60 °C			

Noise emission (typical)	≤ 25 dB(A)
Altitude	4000m
Internal consumption at night	<0.5W
Topology	transformerless
Cooling	Natural convection
Protection degree	IP65
Relative humidity	0~100%
DC connection	VP-D4/MC4(Optional)
AC connection	AC connector
Interfaces	
Display	OLED+LED
RS485/USB	Integrated
WIFI/GPRS/4G/LAN/ RF	Optional
Warranty:5/10 years	Yes/ Optional

* The AC Voltage Range may vary depending on specific country grid standard.
All specifications are subject to change without notice.
MIC 600TL-X is only available in Germany.

14.2 DC & AC connector info

DC connector	VP-D4/ MC4(opt)
AC connector	EN030-2028-1001 VPAC06EP-3S(SC) VPAC06EW-3P(SC4)

14.3 Torque

Enclosure lid screws	12kgf.cm
AC terminal	6kgf.cm
Signal terminal	4kgf.cm
Safety screw	12kgf.cm
Additional ground screws	12kgf.cm

Contact

Accessories

In the following table you will find the optional accessories for your product. If required, you can order these from GROWATT NEW ENERGY TECHNOLOGY CO.,LTD or your dealer.

Name	Brief description
Shine WIFI-X	WIFI monitor with USB interface
Shine 4G-X	4G monitor with USB interface
Shine Link-X	RF monitor with USB interface
Shine LAN-X	LAN monitor with USB interface

Shipped to a Growatt service centre for repair, or repaired on-site, or exchanged for a replacement device of equivalent value according to model and age.

The warranty shall not cover transportation costs in connection with the return of defective modules. The cost of the installation or reinstallation of the modules shall also be expressly excluded as are all other related logistical and process costs incurred by all parties in relation to this warranty claim.

If you have technical problems about our products, contact the GROWATT Serviceline. We need the following information in order to provide you with the necessary assistance:

- Inverter type
- Serial number of the inverter
- Event number or display message of the inverter
- Type and number of PV modules connected
- Optional equipment

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Compliance Certificates

Certificates

With the appropriate settings, the unit will comply with the requirements specified in the following standards and directives (dated: April/2020):

Model	Certificates
MIC 600-3300TL-X	CE , IEC 62109,IEC62116/61727,IEC60068/61683, VDE0126-1-1,EN 50549,C10/11,Inmetro