

MIC 750~3000TL-X

- Maximum efficiency of 97.2%
- Compact design
- Touch key& OLED display
- Flexible interface
- Online service



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Datasheet	MIC 750TL-X	MIC 1000TL-X	MIC 1500TL-X	MIC 2000TL-X	MIC 2500TL-X	MIC 3000TL-X
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Input Data (DC)

Max. recommended PV power (for module STC)	975W	1300W	1950W	2600W	3250W	3900W
Max. DC voltage	500V	500V	500V	500V	550V	550V
Initial voltage	50V	50V	50V	50V	80V	80V
MPPT voltage range/nominal voltage	50V-500V /120V	50V-500V /180V	50V-500V /250V	50V-500V /360V	65V-550V /360V	65V-550V /360V
Max. input current per MPPT	13A	13A	13A	13A	13A	13A
Max. short-circuit current per MPPT	16A	16A	16A	16A	16A	16A
No. of independent MPPT / No. of PV strings per MPPT	1/1	1/1	1/1	1/1	1/1	1/1

Output data(AC)

AC nominal power	750W	1000W	1500W	2000W	2500W	3000W
Max. AC apparent power	825VA	1100VA	1650VA	2200VA	2750VA	3000VA
Nominal AC voltage/range *	230V/180Vac-280Vac	230V/180Vac-280Vac	230V/180Vac-280Vac	230V/180Vac-280Vac	230V/180Vac-280Vac	230V/180Vac-280Vac
AC grid frequency/range	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz	50Hz/60Hz, ±5Hz
Max. output current	3.7A	5A	7.5A	10A	12.5A	14.3A
Power factor @ Nominal power	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99
Adjustable power factor	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging
THDI @ Full load	<3%	<3%	<3%	<3%	<3%	<3%
AC grid connection type	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase

Efficiency

Max. efficiency	97.00%	97.20%	97.20%	97.20%	97.00%	97.00%
Euro-eta	96.50%	96.80%	96.80%	96.80%	96.50%	96.50%

Protection Devices

DC reverse polarity protection	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes
DC Surge protection-varistor	yes	yes	yes	yes	yes	yes
Insulation resistance monitoring	yes	yes	yes	yes	yes	yes
AC surge protection-varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Anti-islanding protection	yes	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes	yes
AFCl protection	Opt	Opt	Opt	Opt	Opt	Opt

General Data

Dimensions (W / H / D) in mm	260/250/135	260/250/135	260/250/135	260/250/135	260/250/135	260/250/135
Weight	6.0kg	6.0kg	6.0kg	6.0kg	6.2kg	6.2kg
Operating temperature range	-25°C ... +60°C (-13... +140°F) with derating above 45°C / 113°F					
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	4000m(13123ft)	4000m(13123ft)	4000m(13123ft)	4000m(13123ft)	4000m(13123ft)	4000m(13123ft)
Self-consumption	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection
Degree of protection	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	100%	100%	100%	100%	100%	100%

Features

DC connection	H4/MC4	H4/MC4	H4/MC4	H4/MC4	H4/MC4	H4/MC4
AC connection	Connector	Connector	Connector	Connector	Connector	Connector
Display	OLED+LCD	OLED+LCD	OLED+LCD	OLED+LCD	OLED+LCD	OLED+LCD
Interfaces: RS485 / USB / WiFi/ GPRS/ LAN/ RF	yes / yes / opt / opt / opt / opt	yes / yes / opt / opt / opt / opt	yes / yes / opt / opt / opt / opt	yes / yes / opt / opt / opt / opt	yes / yes / opt / opt / opt / opt	yes / yes / opt / opt / opt / opt
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt

CE, AS4777, AS/NZS 3100, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, CQC, UTE C 15-712-1, EN 50549, C10/C11, IEC 60068, IEC 61683, IEC 62116, IEC 61727, INMETRO, G98, EN61000-6-2, EN61000-6-3 (Standard CLASS B), EN61000-3-2, EN61000-3-3(Standard less than 16A), IEC/EN62109-1, IEC/EN62109-2

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