

# MIN 7000~10000 TL-X2

- Maximum efficiency 98.1%
- 3 MPP trackers
- Type II SPD on DC side
- Supports export control
- String current up to 16A



P O W E R  
- I N G O  
T O M O -  
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**GROWATT**

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Datasheet	MIN 7000TL-X2	MIN 8000TL-X2	MIN 9000TL-X2	MIN 10000TL-X2
<b>Input data (DC)</b>				
Max. recommended PV power (for module STC)	12000W	12000W	13500W	15000W
Max. DC voltage			600V	
Start voltage			80V	
Nominal voltage			360V	
MPP voltage range			60-550V	
No. of MPP trackers			3	
No. of PV strings per MPP tracker			1/1/1	
Max. input current per MPP tracker			16A	
Max. short-circuit current per MPP tracker			24A	
<b>Output data (AC)</b>				
AC nominal power	7000W	8000W	9000W	10000W
Max. AC apparent power	7000VA	8000VA	9000VA	10000VA
Nominal AC voltage(range*)			220V/160~300V	
AC grid frequency(range*)			50/60Hz(44-55Hz/54-65Hz)	
Max. output current	33.5A	38.3A	43A	45.5A
Adjustable power factor			0.8leading...0.8lagging	
THDi			<3%	
AC grid connection type			Single phase	
<b>Efficiency</b>				
Max. efficiency			98.1%	
European efficiency			97.5%	
MPPT efficiency			99.5%	
<b>Protection devices</b>				
DC reverse polarity protection			Yes	
DC switch			Yes	
DC surge protection			Type II	
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	
<b>General data</b>				
Dimensions (W / H / D)			425/387/180mm	
Weight			20kg	
Operating temperature range			-30 °C ... +60 °C	
Nighttime power consumption			< 1W	
Topology			Transformerless	
Cooling			Natural convection	
Protection degree			IP66	
Relative humidity			0-100%	
Altitude			4000m	
DC connection			H4/MC4(Optional)	
AC connection			Cable gland +OT terminal	
Display			OLED+LED	
Interfaces: RS485 / USB/Wi-Fi/ GPRS/ RF/LAN			Yes/Yes/Optional/Optional/Optional /Optional	
Warranty: 5 years / 10 years			Yes/Optional	
IEEE1547, UL1741, Inmetro, G99, EN50549-1, UNE217001, UNE206007, PO12.2				

\* The AC voltage and frequency range may vary depending on specific country grid standard.  
All specifications are subject to change without notice.