

MIN 7000~10000 TL-X

- Maximum efficiency 98.1%
- 3 MPP trackers
- Type II SPD on DC side
- Supports export control
- Touch key and OLED display



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

GROWATT

Datasheet	MIN 7000TL-X (E)	MIN 8000TL-X (E)	MIN 7000TL-X	MIN 8000TL-X	MIN 9000TL-X	MIN 10000TL-X
Input data (DC)						
Max. recommended PV power (for module STC)	11200W	11200W	12000W	12000W	13500W	15000W
MPP voltage range	60-550V (for solar design purpose)					
Start voltage	100V					
Nominal voltage	360V					
Max. DC voltage	600V					
No. of MPP trackers	2	2	3	3	3	3
No. of PV strings per MPP tracker	1/2		1/1/1		1/1/1+1	
Max. input current per MPP tracker	13.5A/27A		13.5A/13.5A/13.5A		13.5A/13.5A/13.5A+13.5A	
Max. short-circuit current per MPP tracker	16.9A/33.8A		16.9A/16.9A/16.9A		16.9A/16.9A/16.9A+16.9A	
	(Please note that for each PV string, solar panels cannot be connected in parallel on the roof)					
Output data (AC)						
AC nominal power	7000W	8000W	7000W	8000W	9000W	10000W
Max. AC apparent power	7000VA	8000VA	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	33.5A	38.3A	43A	45.5A
Adjustable power factor	0.8leading...0.8lagging					
THDI	<3%					
AC grid connection type	Single phase					
Efficiency						
Max. efficiency	98.1%					
European efficiency	97.3%	97.3%	97.3%	97.3%	97.6%	97.6%
MPPT efficiency	99.5%					
Protection devices						
DC reverse polarity protection	Yes					
DC switch	Yes					
DC/AC surge protection	Type II / 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)	425/387/180mm					
Weight	18.2kg					
Nighttime power consumption	- 25 °C ... +60 °C < 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/WIFI+APP					
Interfaces: RS485 / USB/WI-FI/ GPRS/ RF/LAN	Yes/Yes/Optional/Optional/Optional /Optional					
Warranty: 5 years / 10 years	Yes/Optional					

CE, IEC 62116, IEC 61727, IEC62109, INMETRO, AS4777

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