

# 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**

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Datasheet	MIN 7000TL-X (E)	MIN 8000TL-X (E)	MIN 7000TL-X	MIN 8000TL-X	MIN 9000TL-X	MIN 10000TL-X
<b>Input data (DC)</b>						
Max. recommended PV power (for module STC)	11200W	11200W	12000W	12000W	13500W	15000W
Max. DC voltage	600V					
Start voltage	100V					
Nominal voltage	360V					
MPP voltage range	60-550V					
No. of MPP trackers	2	2	3	3	3	3
No. of PV strings per MPP tracker	1/2		1/1/1		1/1/2	
Max. input current per MPP tracker	13.5A/27A		13.5A/13.5A/13.5A		13.5A/13.5A/27A	
Max. short-circuit current per MPP tracker	16.9A/33.8A		16.9A/16.9A/16.9A		16.9A/16.9A/33.8A	
<b>Output data (AC)</b>						
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					
<b>Efficiency</b>						
Max. efficiency	98.1%					
European efficiency	97.3%	97.3%	97.3%	97.3%	97.6%	97.6%
MPPT efficiency	99.5%					
<b>Protection devices</b>						
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					
<b>General data</b>						
Dimensions (W / H / D)	425/387/180mm					
Weight	18.2kg					
Operating temperature range	- 25 °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/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.