

# 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 -  
R R O W O

**GROWATT**

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,UKE217001,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.