GROWATT

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





POWER-ING TOMO-RROW

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Datasheet	MIN 7000TL-X	MIN 8000TL-X	MIN 9000TL-X	MIN 10000TL-X
Input data (DC)				
Max. recommended PV power (for module STC)	12000W	12000W	13500W	15000W
Max. DC voltage	600V			
Start voltage	100V			
Nominal voltage	360V			
MPP voltage range	60-550V			
No. of MPP trackers	3			
No. of PV strings per MPP tracker	1/1/1		1/1/2	
Max. input current per MPP tracker	13.5A/13.5A/13.5A		13.5A/13.5A/27A	
Max. short-circuit current per MPP tracker	16.9A/16.9A/16.9A		16.9A/16.9A/33.8A	
Output data (AC)				
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			
Efficiency				
Max.efficiency	98.1%			
European efficiency	97.3%		97.6%	
MPPT efficiency	99.5%			
Protection devices				
DC reverse polarity protection	Yes			
DC switch	Yes			
DC 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			
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			
Interfaces: RS485/USB/WiFi/ GPRS/RF/LAN	Yes/Yes/Optional/Optional/Optional/Optional			
Warranty: 5 years / 10 years	Yes/Optional			
CE,IEC62116, ,IEC62109,INMETRO,AS4777,UL1741,IEEE1547				

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

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