

MIN 2500~6000 TL-X2

- Maximum efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Touch key and OLED display
- 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 2500TL-X2	MIN 3000TL-X2	MIN 3600TL-X2	MIN 4200TL-X2	MIN 4600TL-X2	MIN 5000TL-X2	MIN 6000TL-X2
Input Data (DC)							
Max. recommended PV power (for module STC)	3750W	4500W	5400W	6300W	6900W	7500W	9000W
Max. DC voltage	500V	500V	550V	550V	550V	550V	550V
Start voltage				50V			
Nominal voltage				360V			
MPP voltage range	40V-500V	40V-500V	40V-550V	40V-550V	40V-550V	40V-550V	40V-550V
No. of MPP trackers				2			
No. of PV strings per MPP trackers				1			
Max. input current per MPP tracker				16A			
Max. short-circuit current per MPP tracker				24A			
Output data (AC)							
AC nominal power	2500W	3000W	3600W	4200W	4600W	5000W	6000W
Max. AC apparent power	2500VA	3000VA	3600VA	4200VA	4600VA	5000VA	6000VA
Nominal AC voltage (range*)				230V (160-300V)			
AC grid frequency (range*)				50/60 Hz (45-55Hz/54-65 Hz)			
Max. output current	11.3A	13.6A	16A	19A	20.9A	22.7A	27.2A
Adjustable power factor				0.8leading...0.8lagging			
THDi				<3%			
AC grid connection type				Single phase			
Efficiency							
Max.efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European efficiency	97.1%	97.1%	97.2%	97.2%	97.5%	97.5%	97.5%
MPPT efficiency				99.9%			
Protection Devices							
DC reverse polarity protection				Yes			
DC switch*				Yes			
DC surge protection				Type II			
Insulation resistance monitoring				Yes			
AC surge protection				Type III			
AC short-circuit protection				Yes			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Residual-current monitoring unit				Yes			
AFCI protection				Optional			
General Data							
Dimensions (W / H / D)				375/350/158mm			
Weight				10.8kg			
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				Connector			
Display				OLED+LED			
Interfaces: RS485 / USB/Wi-Fi/ GPRS/ RF/LAN				Yes/Yes/Optional/Optional/Optional/Optional			
Warranty: 5 years / 10 years				Yes / Optional			

CE, UKCA, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, VFR 2019, EN 50549-1, IEC 62116, IEC 61727, G99, C10/C11, UNE217001, UNE206007, PO12.2, IEEE1547, UL1741

* The AC Voltage Range may vary depending on specific country grid standard.

* All specifications are subject to change without notice.