

MIN 3000~5000 TL-X



- Maximum efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Supports export control
- Touch key and OLED display
- Data storage up to 25 years

Datasheet	MIN 3000TL-X	MIN 5000TL-X
Input data (DC)		
Max. recommended PV power (for module STC)	4200W	7000W
Max. DC voltage	500V	550V
Start voltage	100V	
Nominal voltage	360V	
MPP voltage range	80V-550V	
No. of MPP trackers	2	
No. of PV strings per MPP tracker	1	
Max. input current per MPP tracker	13.5A	
Max. short-circuit current per MPP tracker	16.9A	
Output data (AC)		
AC nominal power	3000W	5000W
Max. AC apparent power	3000VA	5000VA
Nominal AC voltage (range*)	230V (180-280V)	
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)	
Max. output current	13.6A	22.7A
Adjustable power factor	0.8leading...0.8lagging	
THDI	<3%	
AC grid connection type	Single phase	
Efficiency		
Max. efficiency	98.2%	98.4%
European efficiency	97.1%	97.5%
MPP efficiency	99.9%	
Protection devices		
DC reverse polarity protection	Yes	
DC switch	Yes	
AC/DC surge protection	Type II / 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	
General data		
Dimensions (W / H / D)	375/350/160mm	
Weight	10.8kg	
Operating temperature range	-25°C ... +60°C	
Nighttime power consumption	<1W	
Topology	Transformerless	
Cooling	Natural convection	
Protection degree	IP65	
Relative humidity	0-100%	
Altitude	4000m	
DC connection	H4/MC4(Optional)	
AC connection	Connector	
Display	OLED+LED+MP+APP	
Interfaces: RS485/USB/WIFI/GPRS/4G/LAN	Yes/Yes/Optional/Optional/Optional	
Warranty: 5 years / 10 years	Yes / Optional	
PEA, MEA, CE, IEC62109, VDE0126-1-1, AS4777, AS/NZS 3100, VDE-AR-N4105, CCC, IEC61683, IEC60948, IEC61727, IEC62114, INMETRO, PEA, MEA		

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