

MIN 4200~6000 TL-X2 (Pro)

- Maximum efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Touch key and OLED display
- String current up to 18A



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Datasheet	MIN 4200TL-X2 (Pro)	MIN 4600TL-X2 (Pro)	MIN 5000TL-X2 (Pro)	MIN 6000TL-X2 (Pro)
Input data (DC)				
Max. recommended PV power (for module STC)	6300W	6900W	7500W	9000W
Max. DC voltage	550V	550V	550V	550V
Start voltage	50V			
Nominal voltage	360V			
MPP voltage range	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	18A			
Max. short-circuit current per MPP tracker	24A			
Output data (AC)				
AC nominal power	4200W	4600W	5000W	6000W
Max. AC apparent power	4200VA	4600VA	5000VA	6000VA
Nominal AC voltage (range*)	230V (160-300V)			
AC grid frequency (range*)	50/60Hz (45-55Hz/54-65Hz)			
Max. output current	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	98.4%	98.4%	98.4%	98.4%
European efficiency	97.2%	97.5%	97.5%	97.5%
MPPT efficiency	99.9%			
Protection devices				
DC reverse polarity protection	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: 8 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, UNE 217001, UNE 206007, PO12.2, IEEE 1547, UL 1741

- * The AC Voltage Range may vary depending on specific country grid standard.
- * All specifications are subject to change without notice.