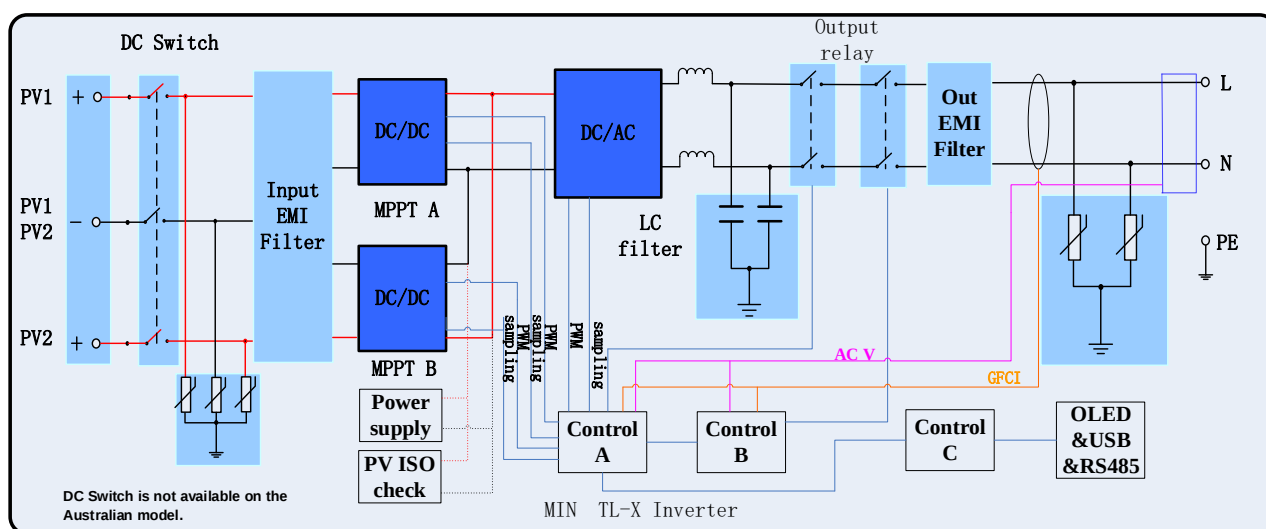


MIN 2500-6000TL-X Spec.

1. System logic diagram



2. Technical data

Model Specifications	2500TL-X	3000TL-X	3600TL-X	4200TL-X	4600TL-X	5000TL-X	6000TL-X
Input data(DC)							
Max. recommended PV power(for module STC)	3500W	4200W	5040W	5880W	6440	7000W	8100W
Max. DC voltage	500V		550V				
Start voltage	100V						
Min. operating voltage	80V						
Nominal voltage	360V						
MPP voltage range	80-500V		80-550V				
No. of MPP trackers	2						
No. of PV strings per MPP trackers	1						

Max. input current per MPP trackers	13.5A						
Max. short-circuit current per MPP trackers	20A						
Output data(AC)							
AC nominal power	2.5kW	3kW	3.6kW	4.2kW	4.6kW	5kW	6kW
Rated apparent power	2.5kVA	3kVA	3.6kVA	4.2kVA	4.6 kVA	5kVA	6kVA
Max. AC apparent power	2.5kVA	3kVA	3.6kVA	4.2kVA	4.6 kVA	5kVA	6kVA
Nominal AC voltage/range*	230/160~300V						
AC grid frequency/range	50-60Hz/44-55Hz;54-65Hz						
Rated output current	10.9A	13A	15.7A	18.3A	20A	21.7A	26A
Max. output current	11.3A	13.6A	16.3A	19A	20.9	22.7A	27.2A
Max output overload protection	16A	16A	20A	25A	25A	32A	32A
Max. inrush current (Peak value/duration time)	<20A/5ms						
Max. output fault current (Peak value/duration time)	<90A/10us						
Max. inverter backfeed current to PV array	0A						
Power factor(@nominal power)	>0.99						
Adjustable power factor	0.8leading... 0.8lagging						
THDi	<3%						
AC grid connection type	Single phase						
Overvoltage category	PV:II AC:III Others:I						
Efficiency							
Max. efficiency	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
Euro-eta	97.1%	97.1%	97.2%	97.2%	97.5%	97.5%	97.5%
Protection devices							

DC reverse-polarity protection	Integrated
DC switch**	Integrated
DC Surge protection	Type II
Insulation resistance monitoring	Integrated
AC surge protection	Type III
AC short-circuit protection	Integrated
Ground fault monitoring	Integrated
Grid monitoring	Integrated
Anti-islanding protection	Integrated(Active Frequency Drift)
Residual-current monitoring unit	Integrated
General data	
Dimensions (W / H / D) in mm	375*350*158
Weight	10.8 kg
Operating temperature range	-25 °C ... +60 °C
Noise emission (typical)	≤ 30 dB(A)
Altitude	4000m
Internal consumption at night	<1W
Topology	Non-isolated
Cooling	Natural convection
Protection degree	IP65
Relative humidity	0~100%
DC connection	VP-D4
AC connection	AC connector
Interfaces	
Display	OLED+LED
RS485/USB	Integrated
WIFI/GPRS/4G/LAN/RF	Optional
Warranty	10 years

Certificates and approvals	
Grid regulation	AS/NZS 4777.2,CEI 0-21 ,VDE-AR-N 4105,DIN V VDE V 0126-1-1,EN 50438, IEC 61683,IEC 62116,IEC 61727,MEA,PEA,G83/2,G59/3
EMC	EN61000-6-2,EN61000-6-3,EN61000-3-2,EN61000-3-3,EN61000-3-11,EN61000-3-12
Safety	IEC/EN62109-1, IEC/EN62109-2
Place of production	Made in China

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

All specifications are subject to change without notice.