

INVERTERS

MIN 2500-6000TL-X-X2(Pro)

String inverter · Single-phase · 2.5 – 6 kW · 20 models


2.5 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

98.2 – 98.4 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Rated PV input voltage	V	360
PV strings per MPPT		1
AC output		
Rated AC voltage	V	230
Phase		Single-phase
Rated AC frequency	Hz	50/60
Power factor		0.8 leading to 0.8 lagging (adjustable)
Total harmonic distortion (THDi)	%	<3
Efficiency		
MPPT efficiency	%	99.9
General data		
Weight	kg	10.8
Relative humidity	%	0 – 100
Max. operating altitude	m	4000
Cooling		Natural convection
Topology		Transformerless
Night-time power consumption	W	<1
DC connection		H4 / MC4 (optional)
AC connection		Connector
Communication		
Communication interfaces		RS485; USB; Wi-Fi (optional); GPRS (optional); RF (optional); LAN (optional)

Parameter	Unit	MIN 2500TL-X	MIN 3000TL-X	MIN 3600TL-X	MIN 4200TL-X	MIN 4600TL-X	MIN 5000TL-X	MIN 6000TL-X
PV input								
Max. PV input power	W	3500	4200	5040	5880	6440	7000	8100
Max. PV input voltage	V	500		550				
Start-up voltage	V	100						
MPPT voltage range	V	80 – 500		80 – 550				
Number of MPPT trackers		2						
Max. input current per MPPT	A	13.5						
Max. short-circuit current per MPPT	A	16.9						
AC output								
Rated output power	W	2500	3000	3600	4200	4600	5000	6000
Max. apparent power	VA	2500	3000	3600	4200	4600	5000	6000
Max. AC output current	A	11.3	13.6	16	19	20.9	22.7	27.2
AC voltage range	V	180 – 280						
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65						
Efficiency								
Max. efficiency	%	98.2			98.4			
European efficiency	%	97.1		97.2	97.5			
Protection								
Protection functions		DC reverse polarity protection; DC switch; DC surge protection (Type II); AC surge protection (Type III); Insulation resistance monitoring; AC short-circuit protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; AFCI protection (optional)						
General data								
Dimensions (W x H x D)	mm	375 × 350 × 160						
Ingress protection (IP rating)		IP65						
Operating temperature range	°C	–25 – 60						
Noise level	dB	≤35						
Warranty	years	5 – 10						
Communication								
Display		OLED + LED; Wi-Fi + app						
Certifications								
Certifications and standards		CE; UKCA; CQC; INMETRO; IEC 62109; IEC 61683; IEC 60068						
Grid codes		VDE 0126-1-1; AS 4777; AS/NZS 4777.2; VDE-AR-N 4105; IEC 62116; IEC 61727; G98; G99; IEEE 1547; PO 12.2; UNE 206007; UNE 217001; NTS Type A						

Parameter	Unit	MIN 2500TL-X2	MIN 3000TL-X2	MIN 3600TL-X2	MIN 4200TL-X2	MIN 4600TL-X2	MIN 5000TL-X2	MIN 6000TL-X2
PV input								
Max. PV input power	W	3750	4500	5400	6300	6900	7500	9000
Max. PV input voltage	V	500		550				
Start-up voltage	V	50						
MPPT voltage range	V	40 – 500		40 – 550				
Number of MPPT trackers		2						
Max. input current per MPPT	A	16						
Max. short-circuit current per MPPT	A	24						
AC output								
Rated output power	W	2500	3000	3600	4200	4600	5000	6000
Max. apparent power	VA	2500	3000	3600	4200	4600	5000	6000
Max. AC output current	A	11.3	13.6	16	19	20.9	22.7	27.2
AC voltage range	V	160 – 300						
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 54-65						
Efficiency								
Max. efficiency	%	98.2			98.4			
European efficiency	%	97.1		97.2		97.5		
Protection								
Protection functions		DC reverse polarity protection; DC switch; DC surge protection (Type II); AC surge protection (Type III); Insulation resistance monitoring; AC short-circuit protection; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; AFCI protection (optional)						
General data								
Dimensions (W x H x D)	mm	375 × 350 × 158						
Ingress protection (IP rating)		IP66						
Operating temperature range	°C	–30 – 60						
Noise level	dB	–						
Warranty	years	5 – 10						
Communication								
Display		OLED + LED						
Certifications								
Certifications and standards		CE; UKCA; UL 1741						
Grid codes		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; PO 12.2; IEEE 1547						

Parameter	Unit	MIN 4200TL-X2 (Pro)	MIN 4600TL-X2 (Pro)	MIN 5000TL-X2 (Pro)	MIN 6000TL-X2 (Pro)	MIN 4200TL-X2 (Pro E)	MIN 5000TL-X2 (Pro E)
PV input							
Max. PV input power	W	6300	6900	7500	9000	6300	7500
Max. PV input voltage	V	550					
Start-up voltage	V	50					
MPPT voltage range	V	40 – 550					
Number of MPPT trackers		2				1	
Max. input current per MPPT	A	18					
Max. short-circuit current per MPPT	A	24					
AC output							
Rated output power	W	4200	4600	5000	6000	4200	5000
Max. apparent power	VA	4200	4600	5000	6000	4200	5000
Max. AC output current	A	19	20.9	22.7	27.2	19	22.7
AC voltage range	V	160 – 300					
AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 54-65					
Efficiency							
Max. efficiency	%	98.4					
European efficiency	%	97.2	97.5			97.2	97.5
Protection							
Protection functions		DC reverse polarity protection; DC surge protection (Type II); AC surge protection (Type III); Insulation resistance monitoring; AC short-circuit protection; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; AFCI protection (optional)				DC reverse polarity protection; DC switch (optional); DC surge protection (Type II); AC surge protection (Type III); Insulation resistance monitoring; AC short-circuit protection; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; AFCI protection (optional)	
General data							
Dimensions (W x H x D)	mm	375 × 350 × 158					
Ingress protection (IP rating)		IP66					
Operating temperature range	°C	–30 – 60					
Noise level	dB	–					
Warranty	years	8 – 10					
Communication							
Display		OLED + LED					
Certifications							
Certifications and standards		CE; BIS					
Grid codes		–					

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

E-mail lidreamtec@163.com

WhatsApp +86 133 5280 0772