

INVERTERS

MIN 2500-6000TL-XH2

Hybrid inverter · Single-phase · 2.5 – 6 kW · 7 models


2.5 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

98.2 – 98.4 %

MAX. EFFICIENCY

Parameter	Unit	MIN 2500TL-XH2	MIN 3000TL-XH2	MIN 3600TL-XH2	MIN 4200TL-XH2	MIN 4600TL-XH2	MIN 5000TL-XH2	MIN 6000TL-XH2
PV input								
Max. PV input power	W	5000	6000	7200	8400	9200	10000	
Max. PV input voltage	V	500			550			
Start-up voltage	V	50						
Rated PV input voltage	V	360						
MPPT voltage range	V	40 – 490			40 – 540			
Full-load voltage range	V	80 – 450	95 – 450	115 – 500	135 – 500	145 – 500	160 – 500	190 – 500
Number of MPPT trackers		2						
PV strings per MPPT		1						
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
Rated AC voltage	V	230						
Phase		Single-phase						
Rated AC frequency	Hz	50/60						
Max. AC output current	A	11.3	13.6	16	19	20.9	22.7	27.2
Power factor		0.8 leading to 0.8 lagging (adjustable)						
Total harmonic distortion (THDi)	%	<3						
AC voltage range	V	160 – 276						
AC grid frequency range	Hz	45-55 / 55-65						
Backup: Max. apparent power	VA	2500	3000	3600	4200	4600	5000	6000
Backup: Nominal AC voltage	V	230						
Backup: AC grid frequency	Hz	50/60						
Backup function requirement		Requires a SYN 50-XH-10 accessory						

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Battery								
Battery type		Compatible with APX 5.0-30.0P-S0 and APX 5.0-30.0M-S3 (5-30 kWh)						
Battery voltage range	V	360 – 500			360 – 550			
Max. charge power	W	6000						
Max. discharge power	W	2500	3000	3600	4200	4600	5000	6000
Max. operating current (battery side)	A	17						
Efficiency								
Max. efficiency	%	98.2			98.4			
European efficiency	%	97.1		97.2		97.5		
MPPT efficiency	%	99.9						
Protection								
Protection functions		DC reverse polarity protection; DC switch; DC/AC surge protection (Type II / 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						
Weight	kg	10.8						
Ingress protection (IP rating)		IP66						
Operating temperature range	°C	–30 – 60						
Relative humidity	%	0 – 100						
Max. operating altitude	m	4000						
Cooling		Natural convection						
Topology		Transformerless						
Night-time power consumption	W	<3						
Warranty	years	10						
DC connection		H4 / MC4 (optional)						
AC connection		Connector						
Communication								
Display		OLED + LED; Wi-Fi + APP						
Monitoring		24 h self-consumption monitoring						
Certifications								
Certifications and standards		CE; UKCA; IEC 62109						
Grid codes		AS/NZS 4777.2; CEI 0-21; VDE-AR-N 4105; VDE 0126-1-1; UTE C 15-712-1; EN 50549-1; IEC 62116; IEC 61727; G98/G99; UNE 217001; UNE 206007; PO 12.2						

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.

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