

INVERTERS

SPM 2500-6000TL-HU-HU2

Hybrid inverter · Single-phase · 2.5 – 6 kW · 12 models


2.5 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97.5 – 98.1 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Number of MPPT trackers		2
PV strings per MPPT		1
Max. short-circuit current per MPPT	A	27.5
AC output		
Nominal AC input voltage	V	220 / 230 / 240
Generator input		Yes
Max. generator input power	W	9200
Rated AC voltage	V	230
Nominal AC voltage options	V	220 / 230 / 240
Phase		Single-phase
Rated AC frequency	Hz	50/60
Power factor		0.8 leading to 0.8 lagging (adjustable)
Total harmonic distortion (THDi)	%	<3
Backup nominal output frequency	Hz	50 / 60
Backup switch time	ms	<10
Battery		
Battery type		Lithium battery / Lead-acid battery
Battery voltage range	V	40 – 60
Efficiency		
MPPT efficiency	%	99

Parameter	Unit	Common to all models
General data		
Ingress protection (IP rating)		IP65
Operating temperature range	°C	-25 – 60
Power derating above	°C	45
Relative humidity	%	0 – 100
Max. operating altitude	m	<2000
Topology		Transformerless
Communication		
Display		LCD touch screen

Parameter	Unit	SPM 2500TL-HU2	SPM 3000TL-HU2	SPM 3600TL-HU2	SPM 5000TL-HU2	SPM 6000TL-HU2	SPM 3000TL-HU
PV input							
Max. PV input power	W	4000	4800	5760	8000	9600	6000
Max. usable PV input power	W	-					4500
Max. input power per MPPT	W	-					4500
Max. PV input voltage	V	550					600
Start-up voltage	V	70					130
MPPT voltage range	V	80 – 525					150 – 550
Max. input current per MPPT	A	18					22
AC output							
Nominal AC input power	W	2500	3000	3600	5000	6000	3000
Nominal AC input current	A	10.9	13.1	15.7	21.8	26.1	13.1
Max. grid passthrough current	A	12.5	15	18	25	30	16.6
Rated output power	W	2500	3000	3600	5000	6000	3000
Max. apparent power	VA	2500	3000	3600	5000	6000	3000
Max. AC output current	A	10.9	13.1	15.7	21.8	26.1	13.1
Max. parallel units		9					6
Backup output power	W	2500	3000	3600	5000	6000	3000
Backup nominal output voltage	V	220 / 230 / 240					230
Peak (surge) power	W	5000	6000	7200	10000	12000	6000
Backup overload capability		200% of full load for 10 s					200% of full load for 5 s
Battery							
Max. charge current	A	60	70	90	120	140	70
Max. discharge current	A	60	70	90	120	140	70
Max. charge power	W	2500	3000	3600	5000	6000	3000
Max. discharge power	W	2500	3000	3600	5000	6000	3000

Parameter	Unit	SPM 2500TL-HU2	SPM 3000TL-HU2	SPM 3600TL-HU2	SPM 5000TL-HU2	SPM 6000TL-HU2	SPM 3000TL-HU
Efficiency							
Max. efficiency	%	97.5					98.1
European efficiency	%	96.6					97.6
Protection							
Protection functions		PV switch; AC over-current protection; AC over-voltage protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; Insulation resistance monitoring; AFCI protection (optional); Surge protection (DC Type II / AC Type II)					PV switch; AC over-current protection; AC over-voltage protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; Insulation resistance monitoring; Surge protection (DC Type II / AC Type II)
General data							
Dimensions (W x H x D)	mm	345 × 450 × 255					330 × 580 × 232
Weight	kg	16					26
Gross weight	kg	20					-
Cooling		Smart fan cooling					Natural convection
Noise level	dB	-					≤30
Self-consumption	W	-					<60
Warranty	years	5					10
Communication							
Communication interfaces		RS485; CAN; USB; Wi-Fi					RS485; CAN; USB; Wi-Fi; LAN
Certifications							
Certifications and standards		CE; IEC 62116; IEC 61683; IEC 61727; IEC 60068; NRS 097; EN 61000					EN 50549; CE-EMC; CE-LVD; IEC 62116; IEC 61727

Parameter	Unit	SPM 3600TL-HU	SPM 4000TL-HU	SPM 4600TL-HU	SPM 5000TL-HU	SPM 5500TL-HU	SPM 6000TL-HU
PV input							
Max. PV input power	W	7200	8000	9200	10000	11000	12000
Max. usable PV input power	W	5400	6000	6900	7500	8250	9000
Max. input power per MPPT	W	4500					
Max. PV input voltage	V	600					
Start-up voltage	V	130					
MPPT voltage range	V	150 – 550					
Max. input current per MPPT	A	22					
AC output							
Nominal AC input power	W	3600	4000	4600	5000	5500	6000
Nominal AC input current	A	15.7	17.4	20	21.8	24	26.1
Max. grid passthrough current	A	20	22.2	25.5	27.7	30.5	33.3
Rated output power	W	3600	4000	4600	5000	5500	6000
Max. apparent power	VA	3600	4000	4600	5000	5500	6000
Max. AC output current	A	15.7	17.4	20	21.8	24	26.1
Max. parallel units		6					
Backup output power	W	3600	4000	4600	5000	5500	6000
Backup nominal output voltage	V	230					
Peak (surge) power	W	7200	8000	9200	10000	11000	12000
Backup overload capability		200% of full load for 5 s					
Battery							
Max. charge current	A	90	100	110	120	130	140
Max. discharge current	A	90	100	110	120	130	140
Max. charge power	W	3600	4000	4600	5000	5500	6000
Max. discharge power	W	3600	4000	4600	5000	5500	6000
Efficiency							
Max. efficiency	%	98.1					
European efficiency	%	97.6					
Protection							
Protection functions		PV switch; AC over-current protection; AC over-voltage protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; Insulation resistance monitoring; Surge protection (DC Type II / AC Type II)					

Parameter	Unit	SPM 3600TL-HU	SPM 4000TL-HU	SPM 4600TL-HU	SPM 5000TL-HU	SPM 5500TL-HU	SPM 6000TL-HU
General data							
Dimensions (W x H x D)	mm	330 × 580 × 232					
Weight	kg	26					
Gross weight	kg	-					
Cooling		Natural convection					
Noise level	dB	≤30					
Self-consumption	W	<60					
Warranty	years	10					
Communication							
Communication interfaces		RS485; CAN; USB; Wi-Fi; LAN					
Certifications							
Certifications and standards		EN 50549; CE-EMC; CE-LVD; IEC 62116; IEC 61727					

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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