

INVERTERS

SPH 3000-6000TL BL-UP

Hybrid inverter · Single-phase · 3 – 6 kW · 6 models


3 – 6 kW

RATED POWER

Single-phase

PHASE

2

MPPT TRACKERS

97.2 – 97.6 %

MAX. EFFICIENCY

Parameter	Unit	SPH 3000TL BL-UP	SPH 3600TL BL-UP	SPH 4000TL BL-UP	SPH 4600TL BL-UP	SPH 5000TL BL-UP	SPH 6000TL BL-UP
PV input							
Max. PV input power	W	6500	7500	8500	9000	9500	10600
Max. PV input voltage	V	550					
Rated PV input voltage	V	370					
MPPT voltage range	V	120 – 550					
Start-up voltage	V	120					
Max. input current per MPPT	A	13.5					
Max. short-circuit current per MPPT	A	16.9					
Number of MPPT trackers		2					
PV strings per MPPT		1					
AC output							
Rated output power	W	3000	3680	4000	4600	5000	6000
Max. apparent power	VA	3000	3680	4000	4600	5000	6000
Rated AC voltage	V	230					
AC voltage range	V	180 – 260					
Rated AC frequency	Hz	50/60					
AC grid frequency range	Hz	45-55 / 55-65					
Rated AC output current	A	13.5	16	17.5	20	22	27
Power factor		0.8 leading ... 0.8 lagging (adjustable)					
Total harmonic distortion (THDi)	%	<3					
Phase		Single-phase					
Backup output power	W	3000	3680	4000			
Rated output current, backup output	A	13	16	17.5			

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Nominal output voltage, backup output	V	230					
Nominal output frequency, backup output	Hz	50 / 60					
Total voltage harmonic distortion (THDv), backup output	%	<3					
Switch time	ms	<10					
Battery							
Battery type		Lithium / lead-acid					
Battery voltage range	V	42 – 59					
Max. charge current	A	66	75	85			
Max. discharge current	A	66	75	85			
Max. charge power	W	3000	3680	4000			
Max. discharge power	W	3000	3680	4000			
Efficiency							
Max. efficiency	%	97.2		97.3	97.4	97.5	97.6
European efficiency	%	97		97.1		97.2	
MPPT efficiency	%	≥99.5					
Protection							
Protection functions		DC switch; DC reverse polarity protection; AC/DC surge protection; Battery reverse protection; AC short-circuit protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; Insulation resistance monitoring					
General data							
Dimensions (W x H x D)	mm	565 × 456 × 188					
Weight	kg	27					
Operating temperature range	°C	–25 – 60					
Night-time power consumption	W	<10					
Topology		Transformerless					
Cooling		Natural convection					
Ingress protection (IP rating)		IP65					
Relative humidity	%	0 – 100					
Max. operating altitude	m	2000					
PV DC connection		H4 / MC4 (optional)					
Battery DC connection		OT terminal					
AC connection		Connector					
Warranty	years	5 – 10					
Communication							
Display		LCD + LED					
Communication interfaces		RS485; CAN; USB					
Monitoring		RF / Wi-Fi / GPRS (optional)					

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Certifications							
Certifications and standards		CE; IEC 62109; IEC 62040					
Grid codes		G98/G99; VDE 0126-1-1; AS 4777; CEI 0-21; VDE-AR-N 4105; UTE C 15-712; EN 50549; IEC 61727; IEC 62116; C10/11; NRS 097-2-1					

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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