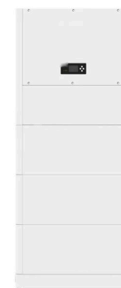


HOME ENERGY STORAGE

SPH-SPA 3000-6000TL-HUB-AUB

Stackable battery · 5 kWh · 14 models


5 kWh

ENERGY CAPACITY

51.2 V

NOMINAL VOLTAGE

3 – 6 kW

RATED POWER

IP66

PROTECTION CLASS

Parameter	Unit	Common to all models
AC output		
Rated AC voltage	V	230
Phase		Single-phase
Rated AC frequency	Hz	50/60
Total harmonic distortion (THDi)	%	<3
Power factor		0.8 leading to 0.8 lagging (adjustable)
Backup nominal voltage	V	230
Backup nominal frequency	Hz	50/60
Backup output THDv	%	3
Backup switch time	ms	≤15
Battery		
Battery type		LiFePO4
Nominal voltage	V	51.2
Nominal energy capacity	Wh	5000
Max. expandable energy	Wh	40000
Depth of discharge (DoD)	%	92
Battery module model		ALP 5.0L-E1
Max. discharge/charge rate	C	0.75
Battery module dimensions (W x H x D)	mm	690 × 295 × 185
Max. inverter discharge power with one battery module	W	3800
Efficiency		
MPPT efficiency	%	≥99.5
General data		
Operating temperature range	°C	0 – 45

Parameter	Unit	Common to all models
Relative humidity	%	5 – 95
Max. operating altitude	m	3000
Ingress protection (IP rating)		IP66
Cooling		Natural
Installation		Floor/Wall mount
Warranty	years	10
Self-consumption	W	<10
AC connection type		Connector
Battery connection		Quick terminal
Communication		
Display		LCD
Communication interfaces		RS485; USB; CAN; Wi-Fi; GPRS
Certifications		
Certifications and standards		CE; IEC 62109; IEC 61000; AS4777.2:2020; CEC
System		
System energy capacity	kWh	5 – 40
Number of inverter modules per system		1
Number of battery modules per system		1 – 8
System weight for 1 to 8 battery modules	kg	80; 125; 170; 215; 260; 305; 350; 395
System dimensions (W x H x D) for 1 to 8 battery modules (two stacks for 5 to 8 modules)	mm	690 x 1102 x 186; 690 x 1397 x 186; 690 x 1692 x 186; 690 x 1987 x 186; 690 x 1692 x 186 + 690 x 705 x 186; 690 x 1692 x 186 + 690 x 1000 x 186; 690 x 1692 x 186 + 690 x 1295 x 186; 690 x 1987 x 186 + 690 x 1295 x 186

Parameter	Unit	SPH 3000TL-HUB	SPH 3600TL-HUB	SPH 4000TL-HUB	SPH 4600TL-HUB	SPH 5000TL-HUB	SPH 5500TL-HUB	SPH 6000TL-HUB
PV input								
Max. PV input power	W	6000	7200	8000	9200	10000	11000	12000
Max. PV input voltage	V	600						
Rated PV input voltage	V	370						
MPPT voltage range	V	100 – 560						
Start-up voltage	V	100						
Max. input current per MPPT	A	16						
Max. short-circuit current per MPPT	A	24						
Number of MPPT trackers		2						
PV strings per MPPT		1						

Parameter	Unit	SPH 3000TL-HUB	SPH 3600TL-HUB	SPH 4000TL-HUB	SPH 4600TL-HUB	SPH 5000TL-HUB	SPH 5500TL-HUB	SPH 6000TL-HUB
AC output								
Rated output power	W	3000	3680	4000	4600	5000	5500	6000
Max. apparent power	VA	3000	3680	4000	4600	5000	5500	6000
Rated AC output current	A	13	16	17.3	20	21.7	23.9	26
Max. AC output current	A	16		22		27	25	27
Backup rated output apparent power	VA	3000	3680	4000	4600	5000	5500	6000
Backup rated output current	A	13	16	17.3	20	21.7	23.9	26
Efficiency								
Max. efficiency	%	97.2		97.3	97.4	97.5	97.6	
Protection								
Protection functions		DC surge protection Type II; AC surge protection Type III						
General data								
PV connection		MC4						

Parameter	Unit	SPA 3000TL-AUB	SPA 3600TL-AUB	SPA 4000TL-AUB	SPA 4600TL-AUB	SPA 5000TL-AUB	SPA 5500TL-AUB	SPA 6000TL-AUB
PV input								
Max. PV input power	W	-						
Max. PV input voltage	V	-						
Rated PV input voltage	V	-						
MPPT voltage range	V	-						
Start-up voltage	V	-						
Max. input current per MPPT	A	-						
Max. short-circuit current per MPPT	A	-						
Number of MPPT trackers		-						
PV strings per MPPT		-						
AC output								
Rated output power	W	3000	3680	4000	4600	5000	5500	6000
Max. apparent power	VA	3000	3680	4000	4600	5000	5500	6000
Rated AC output current	A	13	16	17.3	20	21.7	23.9	26
Max. AC output current	A	16		22		27	25	27
Backup rated output apparent power	VA	3000	3680	4000	4600	5000	5500	6000
Backup rated output current	A	13	16	17.3	20	21.7	23.9	26
Efficiency								
Max. efficiency	%	97.2		97.3	97.4	97.5	97.6	

Parameter	Unit	SPA 3000TL-AUB	SPA 3600TL-AUB	SPA 4000TL-AUB	SPA 4600TL-AUB	SPA 5000TL-AUB	SPA 5500TL-AUB	SPA 6000TL-AUB
Protection								
Protection functions		AC surge protection Type III						
General data								
PV connection		-						

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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