

SPH3000~6000TL BL-US

- 2 MPPTs
- IP65 & Natural cooling
- Workmodes programmable
- Supports export limitation
- Online Smart Service



P O W E R
- I N G
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R R O W



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Datasheet	SPH3000TL BL-US	SPH3600TL BL-US	SPH4000TL BL-US	SPH4600TL BL-US	SPH5000TL BL-US	SPH6000TL BL-US
Input data(DC)						
Max. recommended PV power(for module STC)	6600W	6600W	6600W	8000W	8000W	8000W
Max. DC voltage	550V	550V	550V	550V	550V	550V
Start voltage	150V	150V	150V	150V	150V	150V
Nominal voltage	370V	370V	370V	370V	370V	370V
MPP voltage range	150V~550V	150V~550V	150V~550V	150V~550V	150V~550V	150V~550V
No. of MPP trackers	2	2	2	2	2	2
No. of PV strings per MPP trackers	1	1	1	1	1	1
Max. input current per MPP trackers	13	13	13	13	13	13
Max. short-circuit current per MPP trackers	16	16	16	16	16	16
Output data(AC)						
AC nominal power	3000W	3680W	4000W	4600W	4999W	6000W
Max. AC apparent power	3000VA	3680VA	4000VA	4600VA	4999VA	6000VA
Nominal AC voltage/range	240V(211~264V)/208/(183~228V)	240V(211~264V)/208/(183~228V)	240V(211~264V)/208/(183~228V)	240V(211~264V)/208/(183~228V)	240V(211~264V)/208/(183~228V)	240V(211~264V)/208/(183~228V)
AC grid frequency/range	60Hz;59.3~60.5Hz	60Hz;59.3~60.5Hz	60Hz;59.3~60.5Hz	60Hz;59.3~60.5Hz	60Hz;59.3~60.5Hz	60Hz;59.3~60.5Hz
Max. output current	16A	16A	22A	22A	22A	27A
Power factor(@nominal power)	1	1	1	1	1	1
Adjustable power factor	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging	0.8leading...0.8lagging
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC grid connection type	split phase	split phase	split phase	split phase	split phase	split phase
Stand alone data						
Max. AC apparent power	3000VA	3680VA	3680VA	3680VA	3680VA	3680VA
Nominal AC voltage	240Vac	240Vac	240Vac	240Vac	240Vac	240Vac
Nominal AC frequency	60Hz	60Hz	60Hz	60Hz	60Hz	60Hz
Max. output current	16	16	16	16	16	16
THDv	<1.5%@50Rload	<1.5%@50Rload	<1.5%@50Rload	<1.5%@50Rload	<1.5%@50Rload	<1.5%@50Rload
Switch time	≤1s	≤1s	≤1s	≤1s	≤1s	≤1s
Battery data(DC)						
Battery voltage range	42~59V	42~59V	42~59V	42~59V	42~59V	42~59V
Recommended battery voltage	48V	48V	48V	48V	48V	48V
Max. charging / discharging current	75A	75A	75A	75A	75A	75A
Continuous charging / discharging power	3000W	3680W	3680W	3680W	3680W	3680W
Max charging / discharge power	4000W/10s	4000W/10s	4000W/10s	4000W/10s	4000W/10s	4000W/10s
Type of battery	Li/lead-acid	Li/lead-acid	Li/lead-acid	Li/lead-acid	Li/lead-acid	Li/lead-acid
Capacity of battery	50Ah~2000Ah	50Ah~2000Ah	50Ah~2000Ah	50Ah~2000Ah	50Ah~2000Ah	50Ah~2000Ah
Efficiency						
Max. efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
MAX. Battery charge/discharge efficiency	94%	94%	94%	94%	94%	94%
Protection devices						
DC reverse-polarity protection	yes	yes	yes	yes	yes	yes
Battery reverse protection	yes	yes	yes	yes	yes	yes
DC switch	yes	yes	yes	yes	yes	yes
Insulation resistance monitoring	yes	yes	yes	yes	yes	yes
AC surge protection	yes	yes	yes	yes	yes	yes
AC short-circuit protection	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Residual-current monitoring unit	yes	yes	yes	yes	yes	yes
General Data						
Dimensions (W / H / D) in mm	669*565*179/ (26.34*22.24*7.05)	669*565*179/ (26.34*22.24*7.05)	669*565*179/ (26.34*22.24*7.05)	669*565*179/ (26.34*22.24*7.05)	669*565*179/ (26.34*22.24*7.05)	669*565*179/ (26.34*22.24*7.05)
Weight	33.5kg(73.85lb)	33.5kg(73.85lb)	33.5kg(73.85lb)	33.5kg(73.85lb)	33.5kg(73.85lb)	33.5kg(73.85lb)
Operating temperature range	-25°C ... +60°C(-13°F~140°F) with derating above 45°C(113°F)					
Noise emission (typical)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)	≤25 dB(A)
Altitude	2000m(6561ft)	2000m(6561ft)	2000m(6561ft)	2000m(6561ft)	2000m(6561ft)	2000m(6561ft)
Self-Consumption	<12 W	<12 W	<12 W	<12 W	<12 W	<12 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling	Natural	Natural	Natural	Natural	Natural	Natural
Protection degree	IP65/ NEMA Type 4X	IP65/ NEMA Type 4X	IP65/ NEMA Type 4X	IP65/ NEMA Type 4X	IP65/ NEMA Type 4X	IP65/ NEMA Type 4X
Relative humidity	100%	100%	100%	100%	100%	100%
Battery connection	Screw	Screw	Screw	Screw	Screw	Screw
Interfaces						
Display	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED	LCD+LED
RS232/RS485/CAN/USB/WIFI/GPRS/4G	YES/YES/YES/YES/ YES/NO/NO	YES/YES/YES/YES/ YES/NO/NO	YES/YES/YES/YES/ YES/NO/NO	YES/YES/YES/YES/ YES/NO/NO	YES/YES/YES/YES/ YES/NO/NO	YES/YES/YES/YES/ YES/NO/NO
Warranty: 5 / 10 years	5	5	5	5	5	5

UL 1741: 2018, CSA C22.2 No.107.1:2016,IEEE 1547:2003, IEEE 1547A:2014, IEEE 1547.1:2005,Rule 21 +Rule 14H+SRD1.1,FCC(EMC) standards: part 15B