

SPH3000~6000TL BL-US

- 2 MPPTs
- IP65 & Natural cooling
- EMS modes remote configurable
- Remote power curtailment



P O W E R
- I N G O
T O M O -
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Datasheet	SPH3000TL BL-US	SPH3600TL BL-US	SPH4000TL BL-US	SPH4600TL BL-US	SPH5000TL BL-US	SPH6000TL BL-US
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Input Data(DC)						
Max. Recommended PV power(STC)	6600W	6600W	6600W	8000W	8000W	8000W
Max. DC Voltage	550V					
Start Voltage	150V					
Nominal Voltage	370V					
MPP Voltage Range	150V~550V					
No. of MPP Trackers	2					
No. of PV Strings per MPP Trackers	1					
Max. Input Current per MPP Trackers	13					
Max. Short-circuit Current per MPP Trackers	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)					
AC Grid Frequency/Range	60Hz;59.3~60.5Hz					
Max. Output Current	16A	16A	22A	22A	22A	27A
Power Factor(@Nominal Power)	1					
Adjustable Power Factor	0.8Leading...0.8Lagging					
THDI	<3%					
AC Grid Connection Type	Split Phase					

Stand Alone Data						
Max. AC Apparent Power	3000VA	3680VA	3680VA	3680VA	3680VA	3680VA
Nominal AC Voltage	240Vac					
Nominal AC Frequency	60Hz					
Max. Output Current	16					
THDv	<1.5%@50%load					
Switch Time	≤1s					

Battery Data(DC)						
Battery Voltage Range	42~59V					
Recommended Battery Voltage	48V					
Max. Charging / Discharging Current	75A					
Continuous Charging / Discharging Power	3000W	3680W	3680W	3680W	3680W	3680W
Max Charging / Discharge Power	4000W/10s					
Type of Battery	Li/lead-acid					
Capacity of Battery	50Ah~2000Ah					

Efficiency						
Max. Efficiency	97.0%					
MAX. Battery Charge/Discharge Efficiency	94.0%					

Protection Devices						
DC Reverse-polarity Protection	Yes					
Battery Reverse Protection	Yes					
DC Switch	Yes					
Insulation Resistance Monitoring	Yes					
AC Surge Protection	Yes					
AC Short-circuit Protection	Yes					
Ground Fault Monitoring	Yes					
Grid Monitoring	Yes					
Residual-current Monitoring Unit	Yes					

General Data						
Dimensions (W / H / D)	26.3/22.2/7.0in(669/565/179mm)					
Weight	73.85lbs/33.5kg					
Operating Temperature Range	- 25°C ... +60°C(-13°F~140°F) with derating above 45°C(113°F)					
Noise Emission (typical)	≤25 dB(A)					
Altitude	6562ft(2000m)					
Self-consumption	<12 W					
Topology	Transformerless					
Cooling	Natural Convection					
Protection Degree	NEMA 4X(IP65)					
Relative Humidity	100%					
Battery Connection	Screw					

Interfaces						
Display	LCD+LED					
RS232/RS485/CAN/USB/WIFI/GPRS/4G	Yes/Yes/Yes/Yes/No/No					

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