

Datasheet	SPH3000TL BL-UP	SPH3600TL BL-UP	SPH4000TL BL-UP	SPH4600TL BL-UP	SPH5000TL BL-UP	SPH6000TL BL-UP
Input data(PV)						
Max. recommended PV power (for module STC)	6600W	6600W	6600W	8000W	8000W	8000W
Max. DC voltage	550V					
Start voltage	150V					
MPP voltage range	150V-550V /360V					
No. of MPP trackers	2					
No. of PV strings per MPP tracker	1					
Max. input current per MPP tracker	12A					
Max. short-circuit current per MPP tracker	15A					
Output data(AC)						
AC nominal power	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Nominal AC voltage (range*)	230V/240V (180Vac-270Vac)					
AC grid frequency (range*)	50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)					
Max. output current	16A	16A	22A	22A	22A	27A
Adjustable power factor	0.8leading...0.8lagging					
THDi	<3%					
AC grid connection type	Single phase					
Battery data (DC)						
Battery voltage range	42~59V					
Max charging and discharging current	75A					
Continuous charging and discharging power*	3600W					
Type of battery	Lithium /Lead-acid					
Backup power(AC)						
Max. AC output power*2	3000W	3680W	4000W	4600W	5000W	6000W
Max. AC apparent power	3000VA	3680VA	4000VA	4600VA	5000VA	6000VA
Max. output current	16A	16A	22A	22A	22A	27A
Nominal AC output voltage	230Vac					
Nominal AC output frequency	50/60HZ					
THDv	<3%					
Switch time	<10ms					
Efficiency						
MAX. efficiency	97.2%	97.2%	97.2%	97.3%	97.3%	97.5%
European efficiency	96.9%	96.9%	96.9%	97.0%	97.0%	97.1%
Protection devices						
DC switch	Yes					
DC reverse polarity protection	Yes					
AC/DC surge protection	Yes					
Battery reverse protection	Yes					
AC short-circuit protection	Yes					
Ground fault monitoring	Yes					
Grid monitoring	Yes					
Anti-islanding protection	Yes					
Residual-current monitoring unit	Yes					
Insulation resistance monitoring	Yes					
General data						
Dimensions (W / H / D)	450/560/180mm					
Weight	27kg					
Operating temperature range	-25°C ... +60°C					
Nighttime power consumption	< 7 W					
Topology	Transformerless					
Cooling	Natural					
Protection degree	IP65					
Relative humidity	0~100%					
Altitude	2000m					
DC connection	MC4/H4(Optional)					
AC connection	Connector					
Display	LCD+LED					
Interfaces: RS232/RS485/CAN/USB	Yes					
Monitor : RF/WIFI/GPRS	Optional					
Warranty: 5 years / 10 years	Yes/Optional					
IEC 61000-6-1, IEC 61000-6-3, IEC 62109-1/-2, IEC 62040, NRS 097-2-1						

*1) Continuous back-up power with only battery. *2) Can be reached only if PV and battery power is enough.