

SPH 3-6K & SPH3-6KTL BL-UP

- Smart load management via dry contact(SPH TL BL-UP)
- UPS function, 10ms transition(SPH TL BL-UP)
- Scalable system configuration(SPH TL BL-UP)
- VPP interface ready
- Remote smart O&M
- 2.1 DC/AC Ratio



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Datasheet	SPH3000&SPH3000 TLBL-UP	SPH3600&SPH3600 TLBL-UP	SPH4000&SPH4000 TLBL-UP	SPH4600&SPH4600 TLBL-UP	SPH5000&SPH5000 TLBL-UP	SPH6000&SPH6000 TLBL-UP
Input data(PV)						
Max. PV power (for module STC)	6000W	7200W	7600W	8200W	11600W	11600W
Max. DC voltage	550V					
Start voltage	120V					
MPP voltage range	120-550V/360V					
No. of MPP trackers	2					
No. of PV strings per MPP tracker	1					
Max. input current per MPP tracker	13.5A					
Max. short-circuit current per MPP tracker	20A					
Output data(AC)						
AC nominal power	3000W	3600W	4000W	4600W	5000W	6000W
Rated Apparent Power	3000VA	3000VA	4000VA	4600VA	5000VA	6000VA
Nominal AC voltage (range)	230V/(180Vac-270Vac)					
AC grid frequency (range)	50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)					
Rated Input/output current	13.5/13.5A&13.5/13.5A	13.5/16A&16/16A	13.5/17.5A&17.5/17.5A	13.5/20A&20/20A	13.5/22A&22A/22A	13.5/27A&27/27A
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	66A	75A	85A	85A	85A	85A
Continuous charging and discharging power	3000W	3600W	4000W	4000W	4000W	4000W
Type of battery	Lithium					
Backup power(AC)						
Rated Apparent Power	3000VA&3000VA	3000VA&3680VA	3000VA&4000VA	3000VA&4000VA	3000VA&4000VA	3000VA&4000VA
Rated output current	13A/13A	13A/16A	13A/17.5A	13A/17.5A	13A/17.5A	13A/17.5A
Nominal AC output voltage	230Vac					
Nominal AC output frequency	50/60HZ					
THDv	< 3%					
Switch time(SPH TL BL-UP)	10ms					
Efficiency						
MAX. efficiency	97.20%	97.20%	97.30%	97.40%	97.50%	97.60%
European efficiency	97%	97%	97.10%	97.10%	97.20%	97.20%
MPPT efficiency	≥99.5%					
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)	461/565/188mm					
Weight	27kg					
Operating temperature range	-25°C ... +60°C					
Nighttime power consumption	< 10 W					
Topology	Transformerless					
Cooling	Natural					
Protection degree	IP65					
Relative humidity	0-100%					
Altitude	2000m					
Battery DC connection.	OT Terminal					
AC connection	Connector					
Display	LCD+LED					
Interfaces:RS485/CAN/USB	Yes					
Monitor : RF/WIFI/GPRS	Optional					
Country of Manufacture	China					

CE, IEC62109, G98/G99, VDE0126-1-1, AS4777, CEI 0-21, VDE-AR-N4105, UTE C 15-712, EN50549, IEC 61727, IEC 62116, IEC 62040, C10/11, NRS 097-2-1

* A T5B-2-8400/E Switch may be needed between EPS and on-grid side it will provide a power supply for EPS load when the SPH TL-BL-UP inverter is under maintenance or faulty.