

SPH 3000~6000TL BL-UP

- Smart load management via dry contact
- UPS function, 10ms transition
- Scalable system configuration
- VPP interface ready
- Remote smart O&M
- 2 DC/AC Ratio



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| 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) | 6000W | 7200W | 8000W | 9200W | 10500W | 11200W |
| 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 | 16.5A | | | | | |
| 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/(180Vac-270Vac) | | | | | |
| AC grid frequency (range) | 50Hz/60Hz (45Hz-55Hz/55Hz-65Hz) | | | | | |
| Max. output current | 16A | 16A | 22A | 22A | 27A | 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 | 3680W | 4000W | 4000W | 4000W | 4000W |
| Type of battery | Lithium /Lead-acid | | | | | |
| Backup power(AC) | | | | | | |
| Max. AC output power | 3000W | 3680W | 4000W | 4000W | 4000W | 4000W |
| Max. output current | 17.4A | | | | | |
| Nominal AC output voltage | 230Vac | | | | | |
| Nominal AC output frequency | 50/60HZ | | | | | |
| THDv | <3% | | | | | |
| Switch time | <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) | 458/565/188mm | | | | | |
| Weight | 31kg | | | | | |
| 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 | | | | | |
| PV DC Connection | H4/MC4(Optional) | | | | | |
| Battery DC Connection | OT Terminal | | | | | |
| AC connection | Connector | | | | | |
| Display | LCD+LED | | | | | |
| Interfaces:RS485/CAN/USB | Yes | | | | | |
| Monitor : RF/WIFI/GPRS | Optional | | | | | |
| Warranty: 5 years / 10 years | Yes/Optional | | | | | |
| 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 | | | | | | |

* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.