

# 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



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

**GROWATT**

Datasheet	SPH 3000TL BL-UP	SPH 3600TL BL-UP	SPH 4000TL BL-UP	SPH 4600TL BL-UP	SPH 5000TL BL-UP	SPH 6000TL BL-UP
<b>Input data(PV)</b>						
Max. recommended PV power (for module STC)	6500W	7500W	8500W	9000W	9500W	10600W
Max. DC voltage			550V			
Start voltage			120V			
MPP voltage range/ Nominal Voltage			120-550V/370V			
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			16.9A			
<b>Output data(AC)</b>						
Max. AC output power	3000W	3680W	4000W	4000W	4000W	4000W
Rated AC output apparent power	3000VA	3680VA	4000VA	4000VA	4000VA	4000VA
Nominal AC voltage (range)* <sup>1</sup>			230V/ (180Vac-260Vac)			
AC grid frequency (range)* <sup>1</sup>			50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)			
Rated. output current	13.5A	16A	17.5A	20A	22A	27A
Adjustable power factor			0.8leading...0.8lagging			
THDv			<3%			
AC grid connection type			Single phase			
<b>Battery data (DC)</b>						
Battery voltage range			42~59V			
Max charging and discharging current	66A	75A	85A	85A	85A	85A
Continuous charging and discharging power* <sup>2</sup>	3000W	3680W	4000W	4000W	4000W	4000W
Type of battery			Lithium /Lead-acid			
<b>Backup power(AC)</b>						
Max. AC output power	3000W	3680W	4000W	4000W	4000W	4000W
Rated output current	13A	16A	17.5A	17.5A	17.5A	17.5A
Nominal AC output voltage			230Vac			
Nominal AC output frequency			50/60HZ			
THDv			<3%			
Switch time			<10ms			
<b>Efficiency</b>						
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%			
<b>Protection devices</b>						
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			
<b>General data</b>						
Dimensions (W / H / D)			565/456/188mm			
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			
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

\* 1 The AC voltage range and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.

\* 2 If there is PV and the PV power is strong enough, the maximum continuous charging power can reach 4000W; If there is no PV, and only AC is connected, the maximum continuous charging power is 3000W.

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