

# Growatt SPA1000~3000TL BL

- Supports retrofit & new system
- Compatible with single/three phase grid
- Multiple workmodes configurable
- VPP interface ready for energy trading
- Remote smart O&M
- IP65 & Natural cooling



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Datasheet	SPA1000TL BL	SPA2000TL BL	SPA3000TL BL
<b>Output data(AC)</b>			
AC nominal power	1000W	2000W	3000W
Max. AC apparent power	1000VA	2000VA	3000VA
Nominal AC voltage (range*)	230V (180V-270V)		
AC grid frequency (range*)	50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)		
Max. output current	6A	10A	16A
Adjustable power factor	0.8leading...0.8lagging		
THDi	<3%		
AC grid connection type	Single phase		
<b>Battery data (DC)</b>			
Battery voltage range	42~59V		
Max charging and discharging current	24A	44A	66A
Continuous charging and discharging power	1000W	2000W	3000W
Type of battery	Lithium /Lead-acid		
<b>Backup power(AC)</b>			
Max. AC output power	1000W	2000W	3000W
Max. AC apparent power	1000VA	2000VA	3000VA
Max. output current	6A	10A	16A
Nominal AC output voltage	230Vac		
Nominal AC output frequency	50/60HZ		
THDv	<3%		
Switch time	0.5S		
<b>Protection devices</b>			
AC 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)	428/458/180mm		
Weight	17kg		
Operating temperature range	-25°C ... +60°C		
Nighttime power consumption	<4W		
Topology(solar)	Transformerless		
Topology(battery)	HF transformer		
Cooling	Natural		
Protection degree	IP65		
Relative humidity	0~100%		
Altitude	2000m		
AC connection	Connector		
Display	LCD+LED		
Interfaces: RS232/RS485/CAN/USB	Yes		
Monitor : RF/WIFI/GPRS	Optional		
Warranty: 5 years / 10 years	Yes/Optional		
CE, IEC62109, G98, VDE0126-1-1, VDE-AR-N4105, CEI 0-21, IEC62116&IEC61727, EN50438, EN50549, AS4777, AS/NZS 3100, C10/11			