

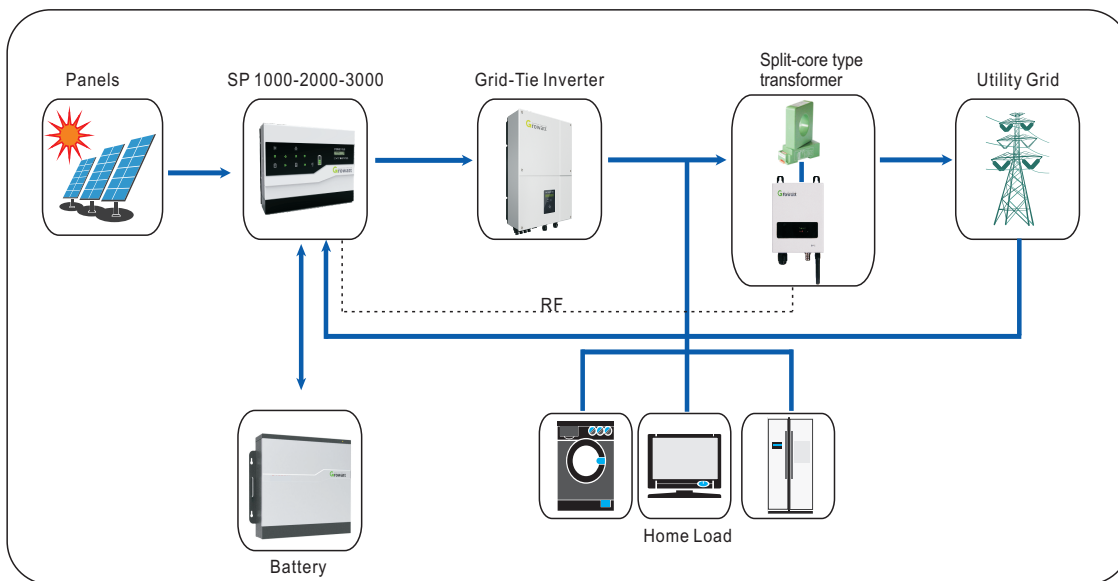
## Residential Storage Product

Growatt SP1000/SP2000/SP3000



### Leading - Edge Technology

- ▶ Production in daytime and consumption at night
- ▶ Internal DC switch
- ▶ Capacity of storage can be expanded
- ▶ Ethernet/RS232 / RF / WiFi
- ▶ Easy to add into Grid-tie installed solar system
- ▶ Charging battery via utility grid\*\*
- ▶ PV and battery power load simultaneously
- ▶ Battery discharging time is programable
- ▶ Comprehensive Growatt warranty program



**GROWATT NEW ENERGY TECHNOLOGY Co.,LTD**

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Datasheet	Growatt SP 1000	Growatt SP2000	Growatt SP3000
<b>PV input data</b>			
Recommended input power range	2000W~4000W	3000W~6000W	3000W~6000W
Max. input current	30A * <sup>1</sup>	30A * <sup>1</sup>	30A * <sup>1</sup>
Input DC voltage range	100V~580VDC	100V~580VDC	100V~580VDC
<b>Technical data</b>			
Max. charging and discharging power	1000W	2000W	3000W
Full load DC voltage range while charging	100V~450VDC	200V~450VDC	200V~450VDC
Output voltage range while discharging	150V~450VDC* <sup>2</sup>	150V~450VDC* <sup>2</sup>	150V~500VDC* <sup>2</sup>
Rated output voltage while discharging	380V	380V	380V
Max. input current (from PV) while charging	10A	10A	15A
Max. output current (to inverter) while discharging	6.7A	10A	15A
Rated output current (to inverter) while discharging	2.7A	5.3A	4A/per string
Number of MPP trackers/strings per MPP tracker	1/3	1/3	2/2
Output strings(to inverter)	2	2	2
Max AC charging power	-	-	1000W
<b>Battery data</b>			
Battery type	Lead-acid / Lithium	Lead-acid / Lithium	Lead-acid / Lithium
Recommend battery capacity range	50-100AH	90-200AH	150-600AH
Daily total electricity supply	2~5 kWh	2~9 kWh	3~12 kWh
Deep of discharge	50% DOD / 80% DOD	50% DOD / 80% DOD	50% DOD / 80% DOD
Battery voltage range	46V~58VDC	46V~58VDC	46V~58VDC
Max charging voltage	58VDC / 57VDC	58VDC / 57VDC	58VDC / 57VDC
Max charging current	≤23A	≤45A	≤66A
Max discharging current	≤23A	≤45A	≤66A
<b>Protection devices</b>			
Over voltage protection	Yes	Yes	Yes
Low voltage protection	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes
Over load protection	Yes	Yes	Yes
Output current short protection	Yes	Yes	Yes
DC reverse polarity protection	Yes	Yes	Yes
<b>Others</b>			
Maximum efficiency	94.0%	94.0%	94.5%
Dimensions(W/H/D)	482/355/166mm	482/355/166mm	470/400/175mm
Weight	13.2 kg	13.2 kg	15 kg
Input grid voltage range (single phase)	230Vac±15%	230Vac±15%	230V/240V AC
Operating temperature range	0 °C~+40 °C	0 °C~+40 °C	0 °C~+40 °C
Altitude	2000m	2000m	2000m
Cooling concept	Natural	Natural	Natural
Environmental protection rating	IP20 (indoor used)	IP20 (indoor used)	IP20 (indoor used)
Noise emission (typical)	≤25dB	≤25dB	≤25dB
DC connection	H4/MC4 (opt)	H4/MC4 (opt)	H4/MC4 (opt)
Battery connection	Screw terminal	Screw terminal	Screw terminal
Display	LED+LCD	LED+LCD	LED+LCD
Current sensor:Wired/Wireless	Yes / opt	Yes / opt	Yes / opt
Interfaces:RS232 / RF / Ethernet / WiFi	Yes / Yes / opt / opt	Yes / Yes / opt / opt	Yes / Yes / opt / opt
Warranty	5 years	5 years	5 years
Certificates and approvals	CE	CE	CE

Note: \*<sup>1</sup> Current from PV array, not only to SP, but also to PV inverter.

\*<sup>2</sup> Default setting 450VDC, can be adjustable to 500VDC.

\*\* It will be available in the near future

## Lithium Battery Product

Growatt GBLI 2701 / GBLI 5001



### Customer friendly design

- Wall-mounted design, saving installation space
- High energy density, low installation cost
- Wide temperature range and long storage period acceptable

### Best battery for Residential solar storage system

- Larger DOD to maximize usage of battery capacity
- Long cycle life to ensure lowest cost per Wh.
- Excellent quality cell along with experienced BMS design team to mostly ensure the safety while operating
- Intelligent over voltage/current/temperature protection, LED to indicate status realtimely.

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Datasheet	Growatt GBLI 2701	Growatt GBLI 5001
<b>Nominal parameters</b>		
Voltage	51.1V	51.1V
Capacity	53Ah	95.4Ah
Energy	2708Wh	4875Wh
<b>Electrical parameters</b>		
Operating voltage	46~57 V	46~57 V
Maximum charge voltage	57 V	57 V
Maximum discharge current	23 A	45 A
Maximum charge current	23 A	45 A
<b>Communication parameters</b>		
Network interface	RS485(RJ45)	RS485(RJ45)
Communication protocols	MODBUS	MODBUS
<b>Structural parameters</b>		
Width	580 mm	800 mm
Height	580 mm	610 mm
Depth	137 mm	167 mm
Weight	30 kg	46.5 kg
<b>Other parameters</b>		
Life (25°C)	10 years	10 years
Life cycles (80% DOD, 25°C)	≥5000	≥5000
Maintenance	Free in quality guarantee period	Free in quality guarantee period
Storage time (-20°C~35°C)	3 months power off	3 months power off
Operation temperature	-10°C~45°C	-10°C~45°C
Storage temperature	-40°C~60°C	-40°C~60°C
Transport standard	UN 38.3	UN 38.3
EMC standard	IEC 61000	IEC 61000
Warranty	5 years	5 years