

## Residential Storage Product

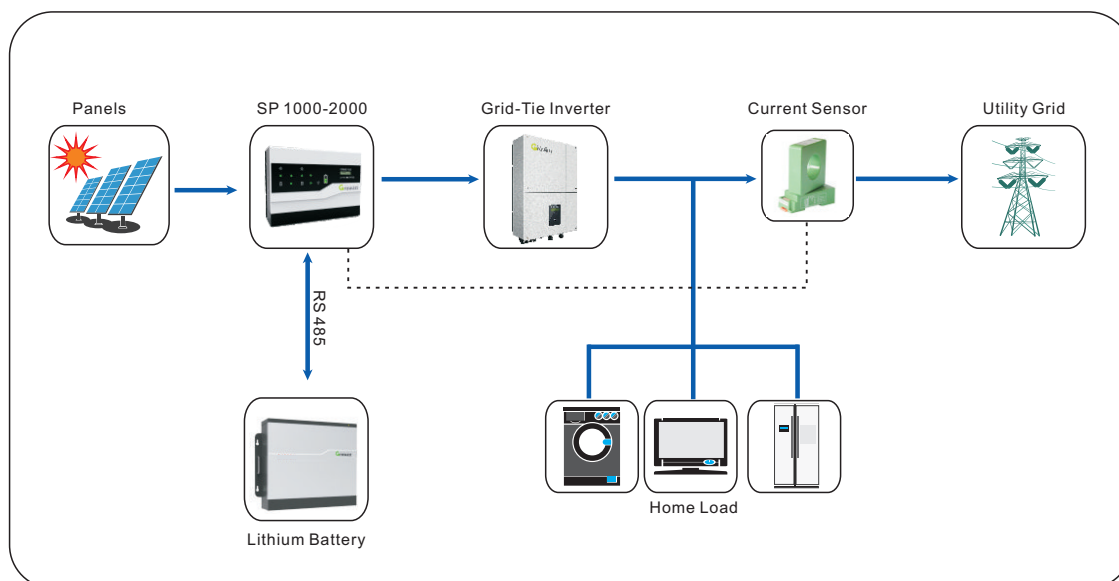
Growatt SP1000/SP2000



### Leading - Edge Technology

- ▶ Production in daytime and consumption at night
- ▶ Internal DC switch
- ▶ Capacity of storage can be expanded
- ▶ RS232 / Ethernet / WiFi
- ▶ Easy to add into Grid-tie installed solar system
- ▶ Comprehensive Growatt warranty program

### System Application Diagram



## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

A: No.28 Guanghui Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China.

T: + 86 755 2747 1900

F: + 86 755 2749 1460

E: info@ginverter.com

**Datasheet**

**Growatt SP 1000**

**Growatt SP2000**

**PV input data**

Recommended input power range  
Max. input current  
Input DC voltage range

2000W~4000W  
30A \*1  
100V~580VDC

3000W~6000W  
30A \*1  
100V~580VDC

**Technical data of SP 2000**

Max. charging and discharging power  
Full load DC voltage range while charging  
Output voltage range while discharging  
Rated output voltage while discharging  
Max. input current (from PV) while charging  
Max. output current (to inverter) while discharging  
Rated output current (to inverter) while discharging  
Number of MPP trackers/strings per MPP tracker  
Output strings(to inverter)

1000W  
100V~450VDC  
150V~450VDC\*2  
380V  
10A  
6.7A  
2.7A  
1/3  
2

2000W  
200V~450VDC  
150V~450VDC\*2  
380V  
10A  
10A  
5.3A  
1/3  
2

**Battery data**

Battery type  
Recommend battery capacity range  
Daily electricity supply  
Deep of discharge  
Battery voltage range  
Max charging voltage  
Max charging current  
Max discharging current

Lead-acid / Lithium  
50-100AH  
2~5 kWh  
50% DOD / 80% DOD  
46V~58VDC  
58VDC / 57VDC  
≤23A  
≤23A

Lead-acid / Lithium  
90-200AH  
2~9 kWh  
50% DOD / 80% DOD  
46V~58VDC  
58VDC / 57VDC  
≤45A  
≤45A

**Protection devices**

Over voltage protection  
Low voltage protection  
Over current protection  
Over load protection  
Output current short protection  
DC reverse polarity protection

Yes  
Yes  
Yes  
Yes  
yes  
Yes

Yes  
Yes  
Yes  
Yes  
yes  
Yes

**Others**

Maximum efficiency  
Dimensions(W/H/D)  
Weight  
Input grid voltage range (single phase)  
Operating temperature range  
Altitude  
Cooling concept  
Environmental protection rating  
Noise emission (typical)  
DC connection  
Battery connection  
Display  
Interfaces: RS232 /Ethernet / Wi-Fi  
Warranty  
Certificates and approvals

94.0%  
482/355/166mm  
13.2 kg  
230Vac±15%  
0 °C~+40 °C  
2000m  
Natural  
IP20 (indoor used)  
≤25dB  
H4/MC4 (opt)  
Screw terminal  
LED+LCD  
Yes / opt / opt  
5 years  
CE

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Note: \*1 Current from PV array, not only to SP, but also to PV inverter.  
\*2 Default setting 450VDC, can be adjustable to 500VDC.

## 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 realltimey.

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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)     | >3000                            | >3000                            |
| 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                          |