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Residential Storage System  
**SP2000**

# SP2000



## Leading - Edge Technology

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

### PV input data

Max. input power	6000W
Max. input current	30A *1
Input DC voltage range	100V~580VDC

### Technical data of SP2000

Max. charging and discharging power	2000W
Full load DC voltage range while charging	200V~450VDC
Output voltage range while discharging	150V~500VDC
Rated output voltage while discharging	380V
Max. charging and discharging current	10A
Rated charging and discharging current	5.3A
Number of MPP trackers/ strings per MPP tracker	1/3
Output strings(to inverter)	2

### Battery data

Battery type	Lead-acid / Lithium
Recommend battery capacity range	90-200AH
Daily night electricity consumption	2~9 kWh
Deep of discharge	50% DOD / 80% DOD
Battery voltage range	46V~58VDC
Max charging voltage	58VDC / 57VDC
Max charging current	≤45A
Max discharging current	≤45A

### Protection devices

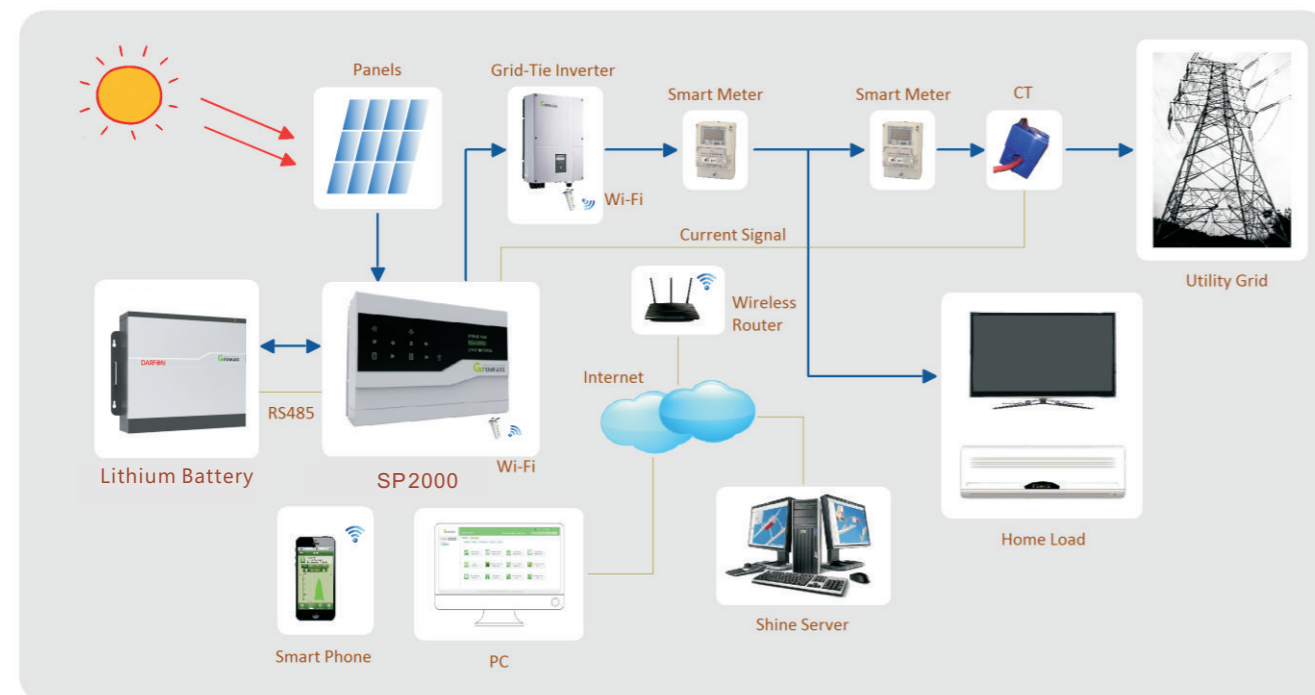
Over voltage protection	Yes
Low voltage protection	Yes
Over current protection	Yes
Over load protection	Yes
Output current short protection	yes
DC reverse polarity protection	Yes

### Others

Maximum efficiency	94.0%
Dimensions(W/H/D)	482/355/166mm
Weight	13.2 kg
Input grid voltage range (single phase)	230Vac±15%
Operating temperature range	0°C~+40°C
Altitude	2000m
Cooling concept	Natural
Environmental protection rating	IP20 (indoor used)
Noise emission (typical)	≤25dB
DC connection	H4/MC4 (opt)
Battery connection	Screw terminal
Display	LED+LCD
Interfaces: RS232 /Ethernet / Wi-Fi	Yes / opt / opt
Warranty	5 years
Certificates and approvals	CE

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

## Growatt Storage System Solution



## Lithium Battery



### Nominal parameters GBLI 5001

Voltage	51.1V
Capacity	95.4Ah
Energy	4875Wh

### Electrical parameters

Operating voltage	46~57 V
Maximum charge voltage	57 V
Maximum discharge current	45 A
Maximum charge current	45 A

### Basic parameters

Life (25°C)	10 years
Life (40°C)	8 years
Life cycles (80% DOD, 25°C)	>3000
Maintenance	Free in quality guarantee period
Storage time (-20°C~35°C)	3 months power off
Operation temperature	-10°C~45°C
Storage temperature	-40°C~60°C
Transport standard	UN 38.3
EMC standard	IEC 61000

### Structural parameters

Width	610 mm
Height	800 mm
Depth	167 mm
Weight	46.5 kg

### Communication parameters

Network interface	RS485(RJ45)
Communication protocols	MODBUS