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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 array input data

SP Max input and output power	3000-6000W
Max SP input current	30A *1
Input DC voltage range	100V~580VDC
Full load input DC voltage range	200V~450VDC
Number of MPP trackers/ strings per MPP tracker	1/3

Output data

Rated output power	2000W
SP output DC voltage range	150V~500VDC
Rated output voltage	380V
Max output current	10A
Rated output current	5.3A
Output strings	2

Battery data

Battery kind	Lead-acid / Lithium
Capacity of battery	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

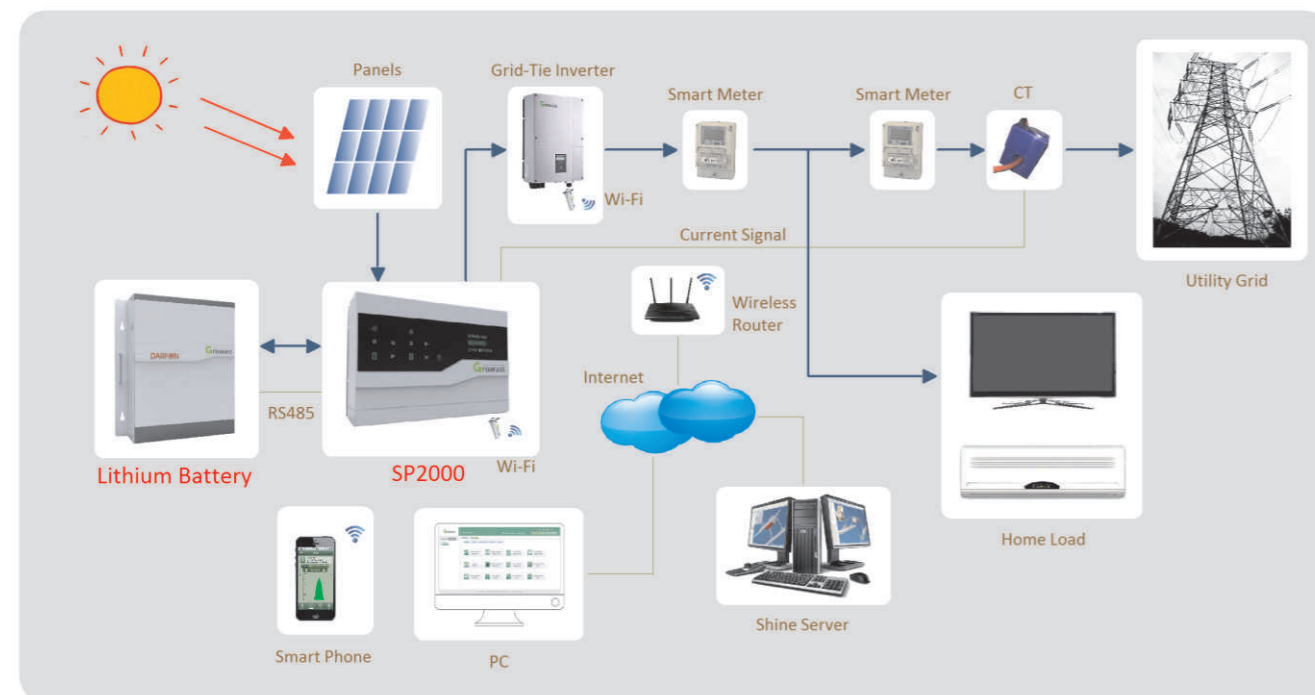
Over voltage protection	Yes
Low voltage protection	Yes
Over current protection	Yes
Over load protection	Yes
Output current short protection	yes
DC reverse polarity protection	Yes

Others

Maximum efficiency	94.0%
Dimensions(W/H/D)	482/350 /166 mm
Weight	12 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	52 V
Capacity	96 Ah
Capacity	5000 Wh

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 (25°C)	6 Months power off
Operation Temperature	-25°C~45°C
Storage Temperature	-40°C~60°C
Transport Standard	UN 38.3
EMC Standard	IEC 61000, EN 55022

Structural Parameters

Width	610 mm
Height	650 mm
Depth	148 mm
Weight	45 kg

Communication Parameters

Network Interface	RS485(RJ45)
Communication Protocols	MODBUS