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Battery Storage

SOLUTIONS

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and night!

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SP2000

Leading-edge Technology

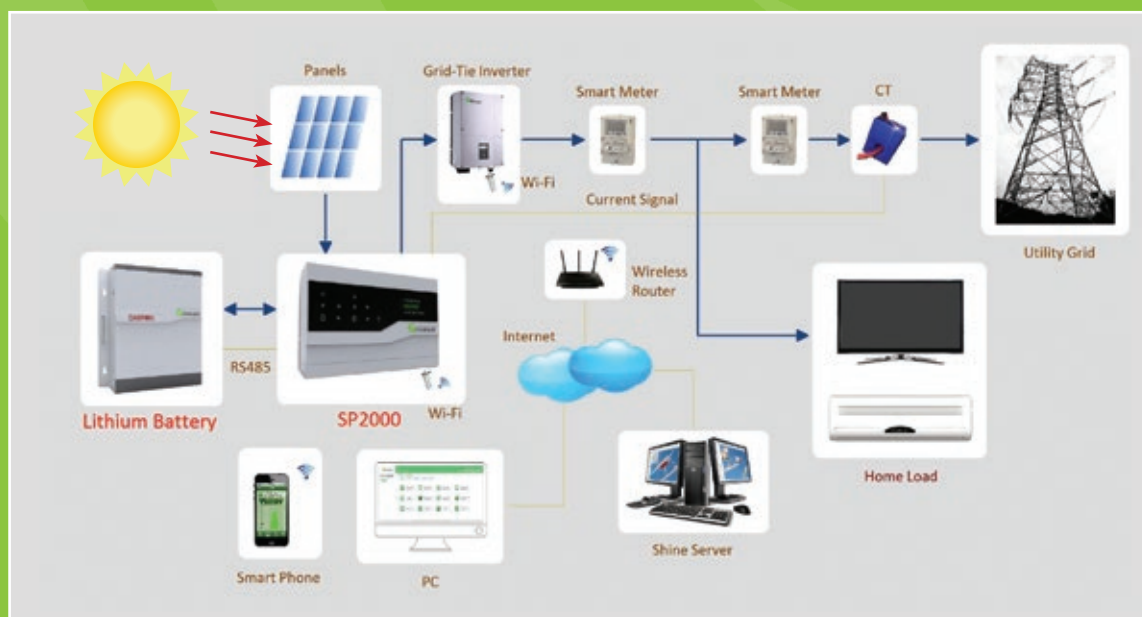
- ▶ Self-consumption
- ▶ Internal DC switch
- ▶ Capacity of storage can be expanded
- ▶ RS232 / Ethernet / WiFi
- ▶ Comprehensive warranty programme
- ▶ Easy to add into Grid-tie installed solar system



Lithium Battery

10
YEARS
Lifetime

5
YEARS
Warranty



SP-2000

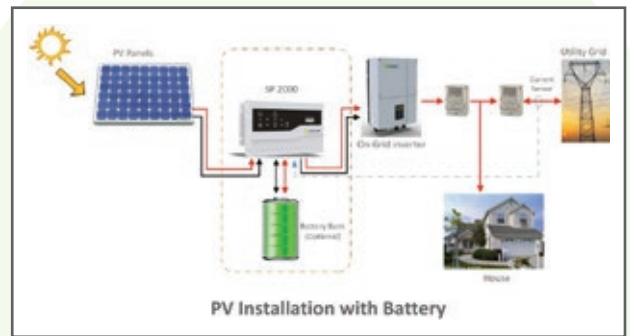
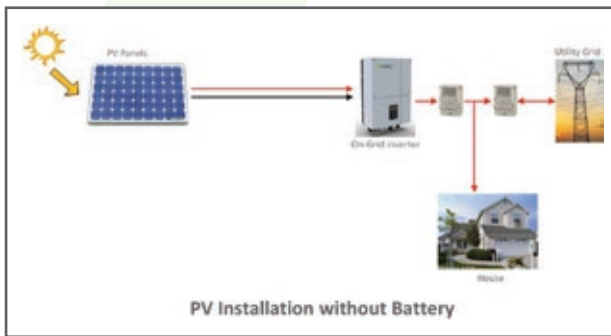
Features of SP-2000	
Charge power	2000W
Dimensions	(W x H x D) 520 x 340 x 160 mm
Weight	12 kg (without batteries)
Parameters of SP-2000:	
Warranty	5 years
Communication	RS232/Ethernet (opt) /Wi-Fi(opt)
Display	LED+LCD
Operating temperature range	0°~+40°C
Environmental Protection Rating	IP20 (indoor use)
Cooling concept	Natural
Noise emission	≤25dB (typical)
Certificates	CE
Max input and output power	2000W
Input DC voltage range	100V~580VDC
Max SP input current	30A
Output DC voltage range	150-550VDC
Rated output voltage	380VDC
Max output current	13A
MPPTs/Strings per MPPT	1 / 3
Output strings	2

Lithium Battery

Features of SP-2000	
Capacity of battery	5000 Wh
Dimensions	(W x H x D) 610 x 650 x 148 mm
Weight	45 kg
Parameters of SP-2000:	
Life (25°C)	10 years
Life (40°C)	8 years
Life Cycles (80% DOD, 25°C)	> 3000
Storage Time (25°C)	6 Months
Operation Temperature	-25°C ~ 45°C
Max. discharging current	-25°C ~ 45°C
Transport Standard	UN 38.3
EMC Standard	IEC 61000, EN 55022
Battery kind	Lithium Battery
Capacity of battery	52V / 96AH
Electricity consumption	5000 Wh
Deep of discharge	80% DOD
Battery voltage range	44V-57VDC
Max. charging voltage	57VDC
Max. discharging current	≤45A
Max. charging current	≤45A

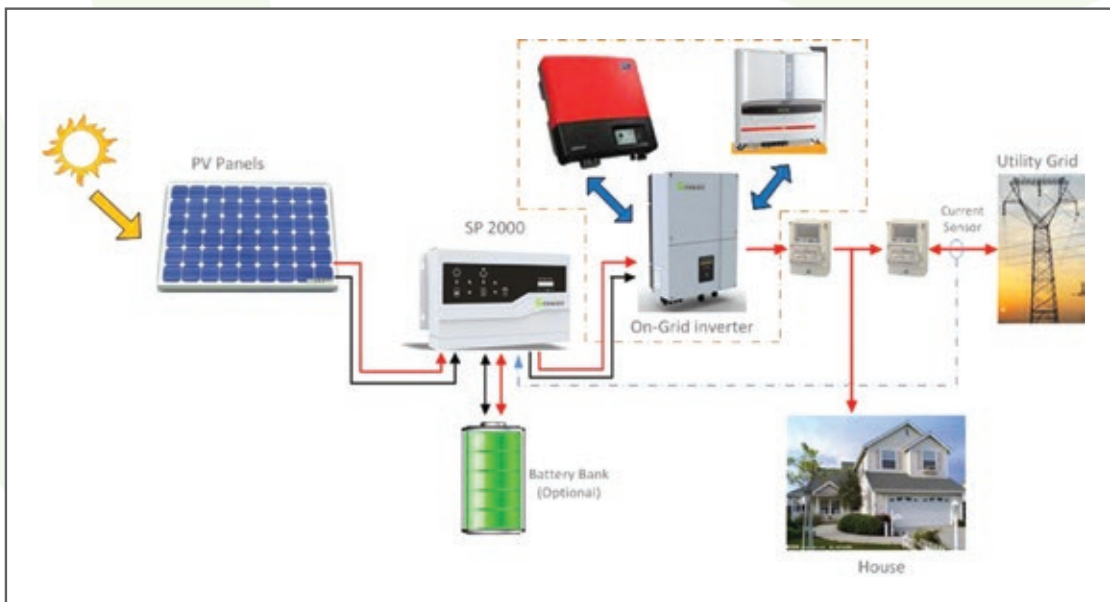
Advantage 1

Add into the installed PV plant

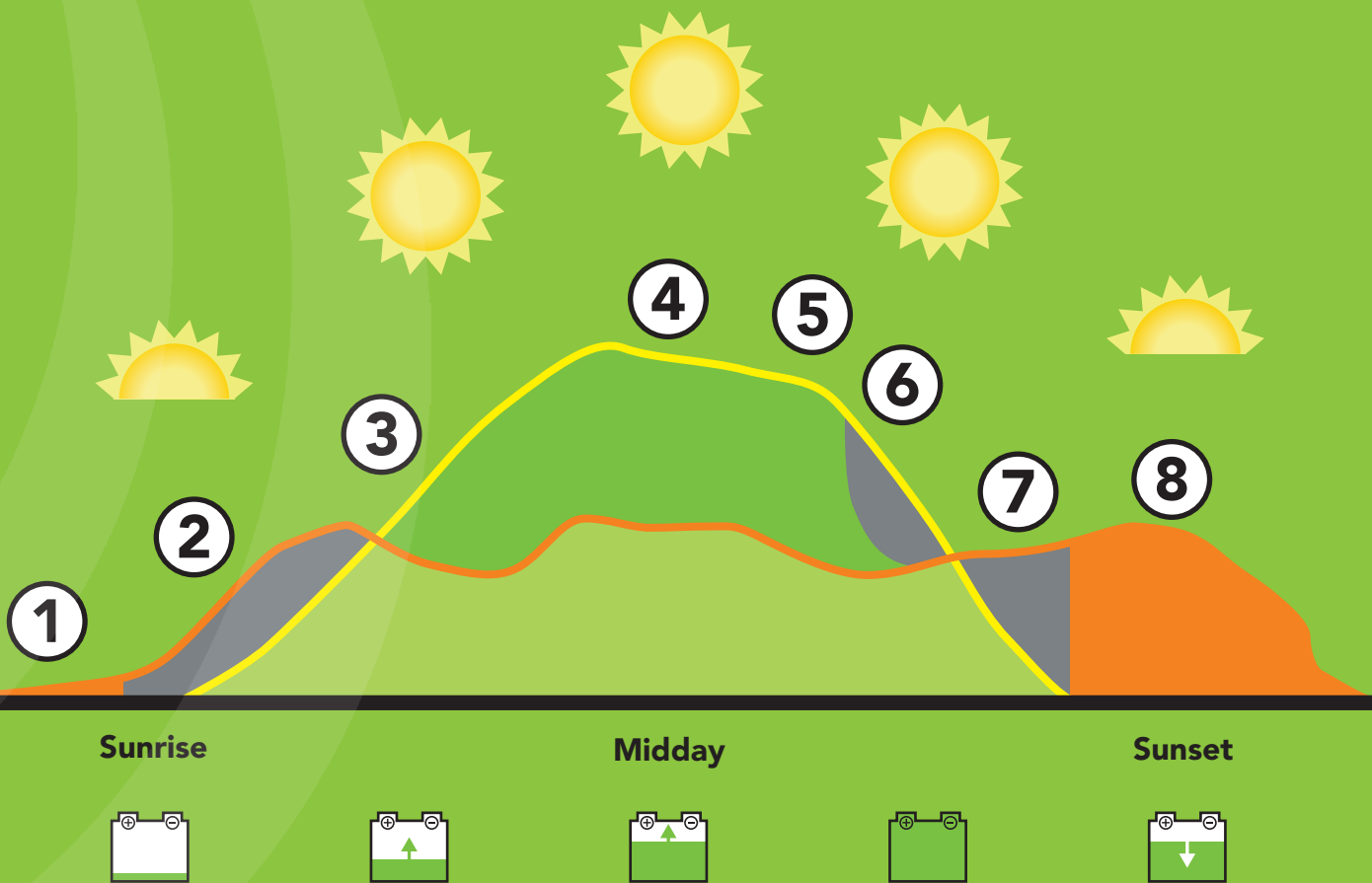







Advantage 2

Compatible with most brands of inverters



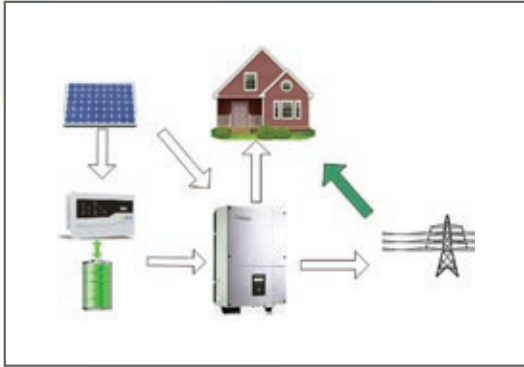
The 8 Modes Explained...



-  Solar energy production
-  Self-use from batteries
-  Consumption from/export to the grid
-  Charging the batteries
-  Self-use from solar energy

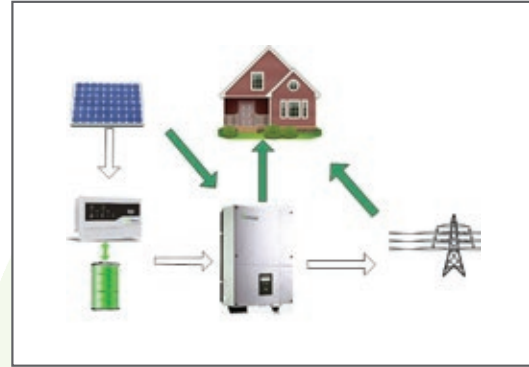


The 8 Modes



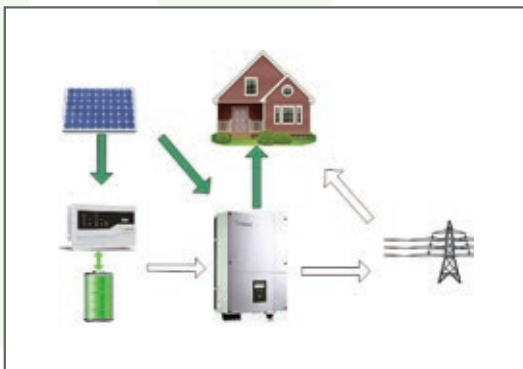
Mode 1

- ▶ In the very early of the day
- ▶ The battery is empty
- ▶ No power from panels
- ▶ The energy for local load comes from grid



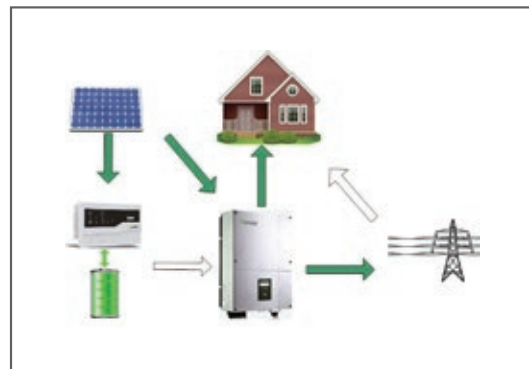
Mode 2

- ▶ In the early of the day
- ▶ The battery is empty
- ▶ A little power from panels
- ▶ The energy for local load comes from panels and grid



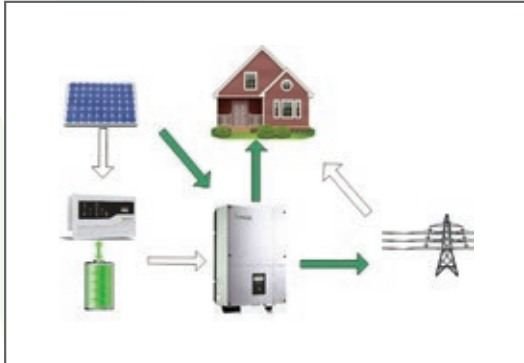
Mode 3

- ▶ After 9:00AM at morning
- ▶ The battery is been charging
- ▶ Strong power from panels
- ▶ The energy for local load comes from panels



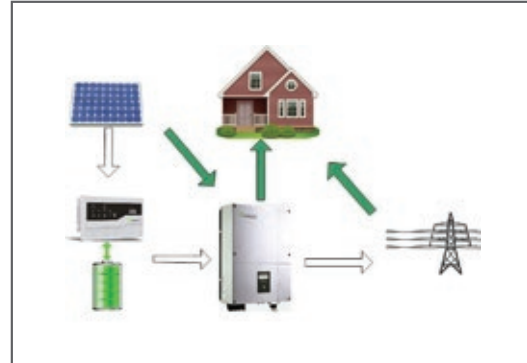
Mode 4

- ▶ In the middle of the day
- ▶ The battery is been charging
- ▶ Very strong power from panels
- ▶ The energy for local load comes from panels
- ▶ The rest energy from panels is fed to grid



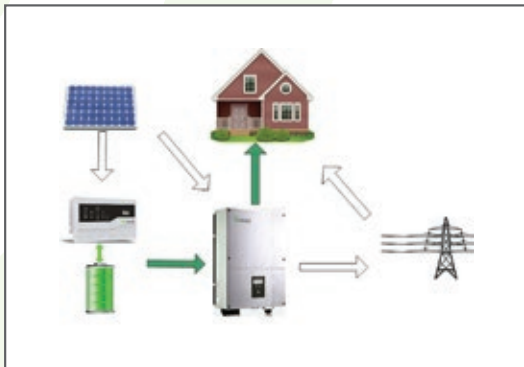
Mode 5

- ▶ Before 3:00PM afternoon
- ▶ The battery is full
- ▶ Very strong power from panels
- ▶ The energy for local load comes from panels
- ▶ The rest energy from panels is fed to grid



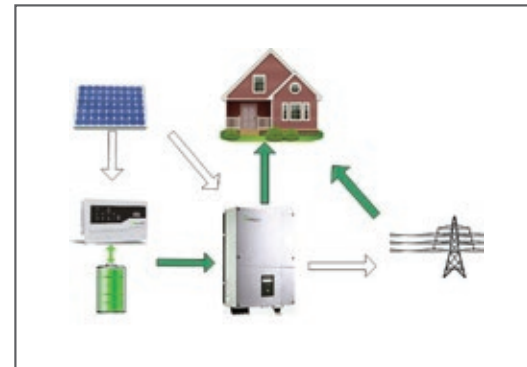
Mode 6

- ▶ Before 6:00PM afternoon
- ▶ The battery is full
- ▶ Weak power from panels
- ▶ The energy for local load comes from panels and grid



Mode 7

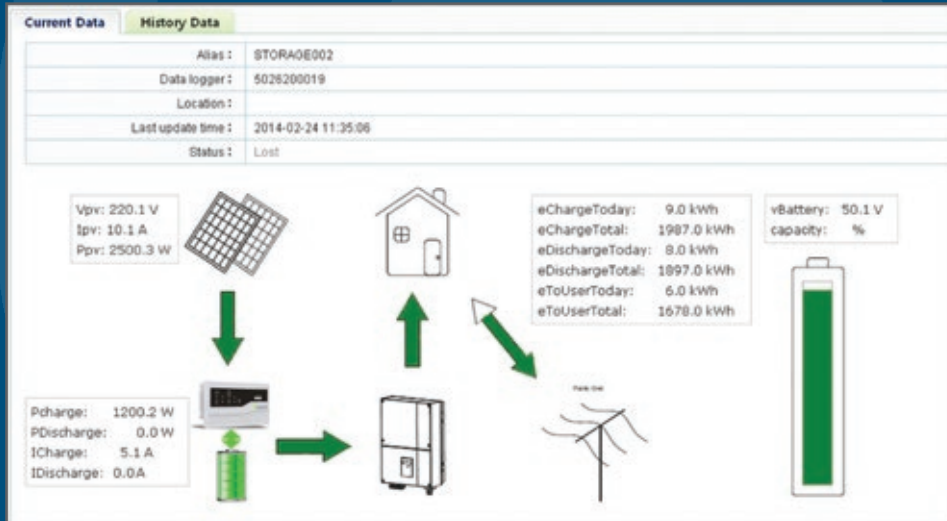
- ▶ In the evening
- ▶ The battery is been discharging
- ▶ No power from panels
- ▶ The energy for local load comes from battery



Mode 8

- ▶ At night
- ▶ The battery is been discharging
- ▶ No power from panels
- ▶ The energy for local load comes from battery and grid (The energy of battery is not enough for local load)

Monitoring System of SP-2000



Main Information

- ▶ eChargeToday
- ▶ eDischargeToday
- ▶ eToUserToday
- ▶ eChargeTotal
- ▶ eDischargeTotal
- ▶ eToUserTotal

10
YEARS

Lifetime

5
YEARS

Warranty



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