Growatt Storage Plus

Marketing Dept. Aug 2014

Growatt SP 2000

Features:

Charge power	2000W
Dimension (W X H X D)	520*340*160 mm
Weight	12 kg (without batteries)

>> For more details

GBLI 5001

Warranty

5 Years

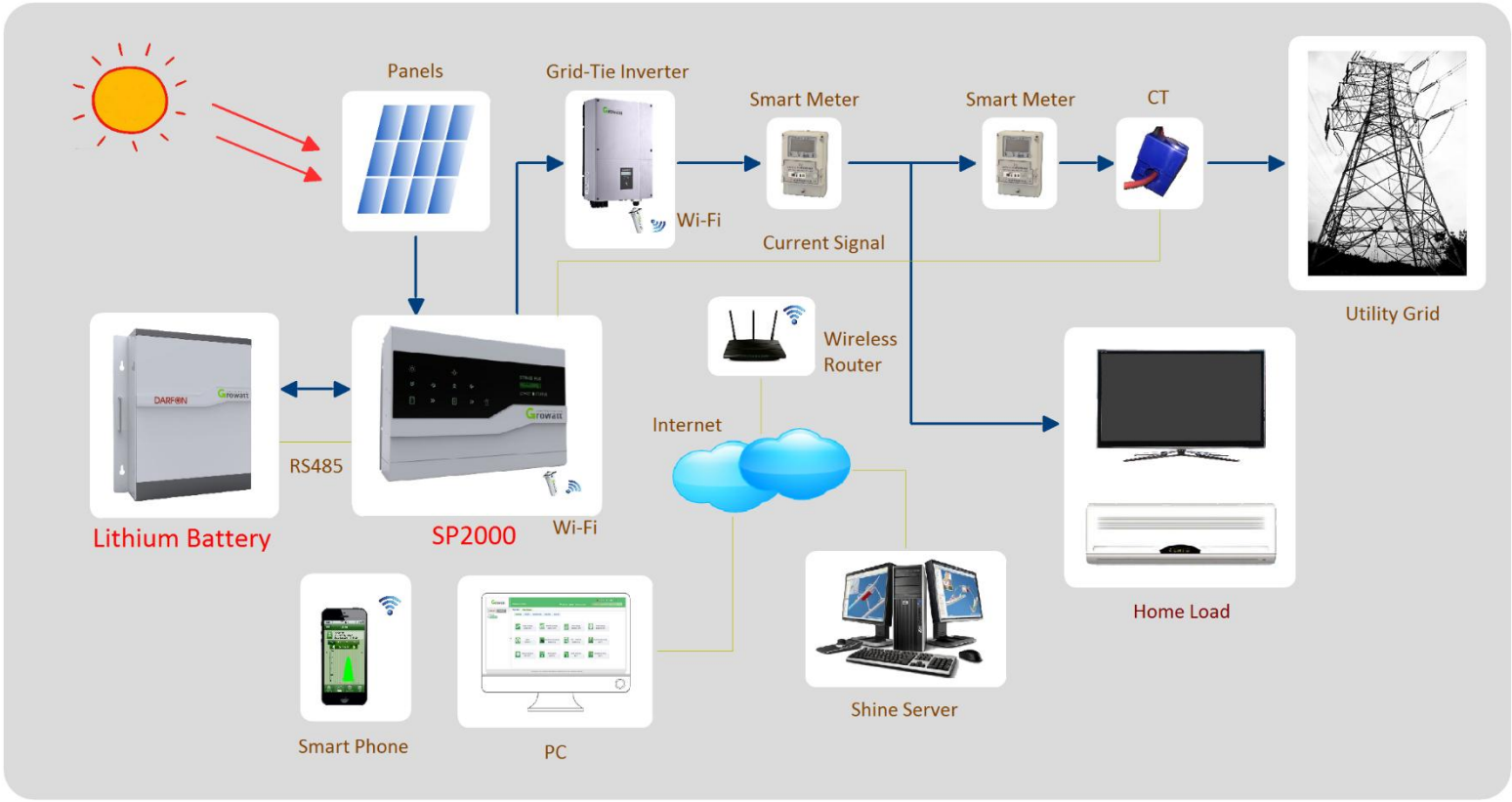
Lifetime

10 Years

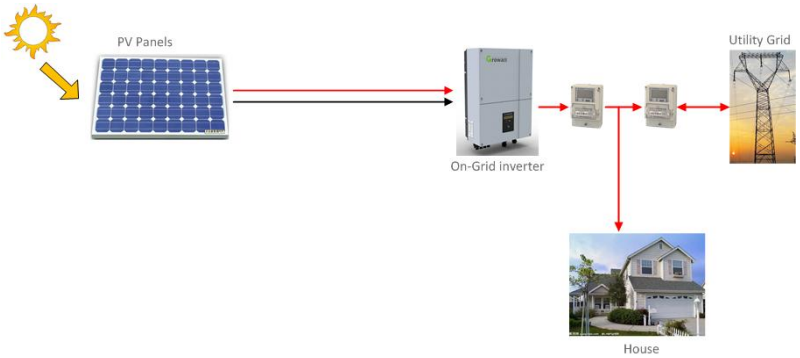
Features:

Capacity of battery	5000 Wh
Dimension (W X H X D)	610*650*148 mm
Weight	45 kg

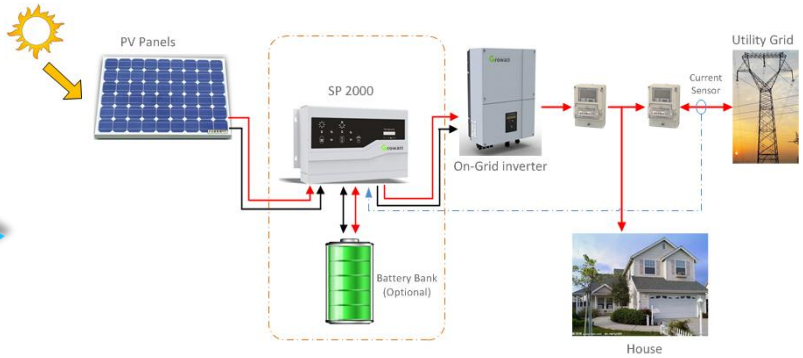
>> For more details


Panels
Grid-Tie Inverter
Wi-Fi
Smart Meter
Current Signal
Smart Meter
CT
Utility Grid
Wireless Router
Internet
Lithium Battery
RS485
SP2000
Wi-Fi
Home Load
Smart Phone
PC
Shine Server

Advantage 1: Add into the installed PV plant



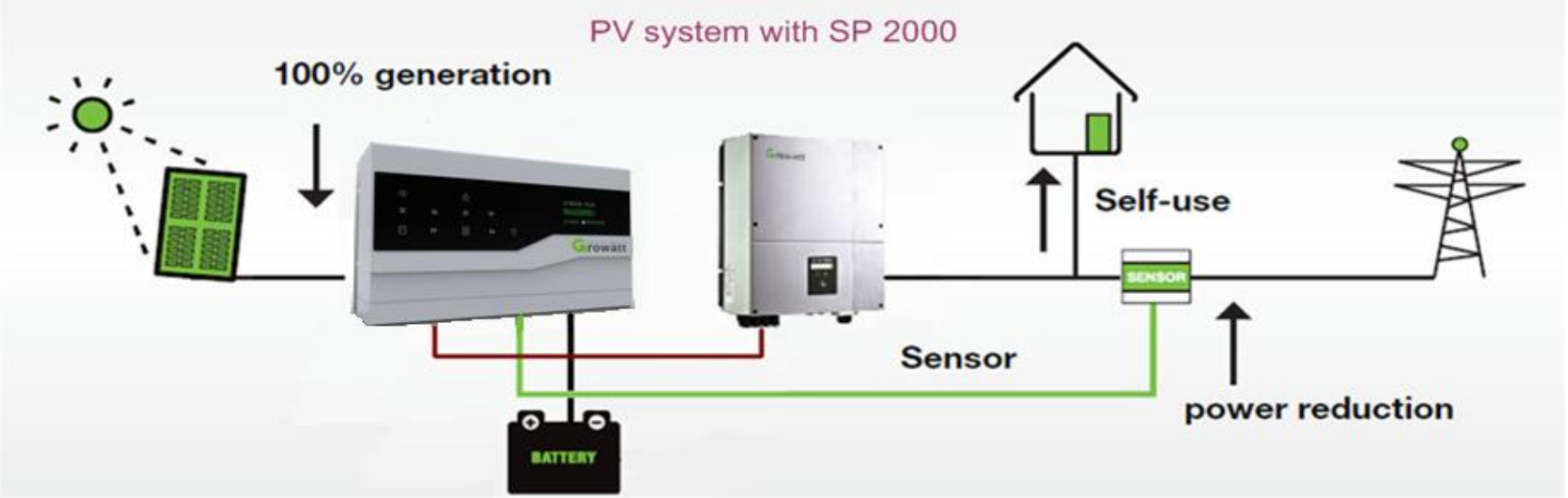
PV Installation without Battery



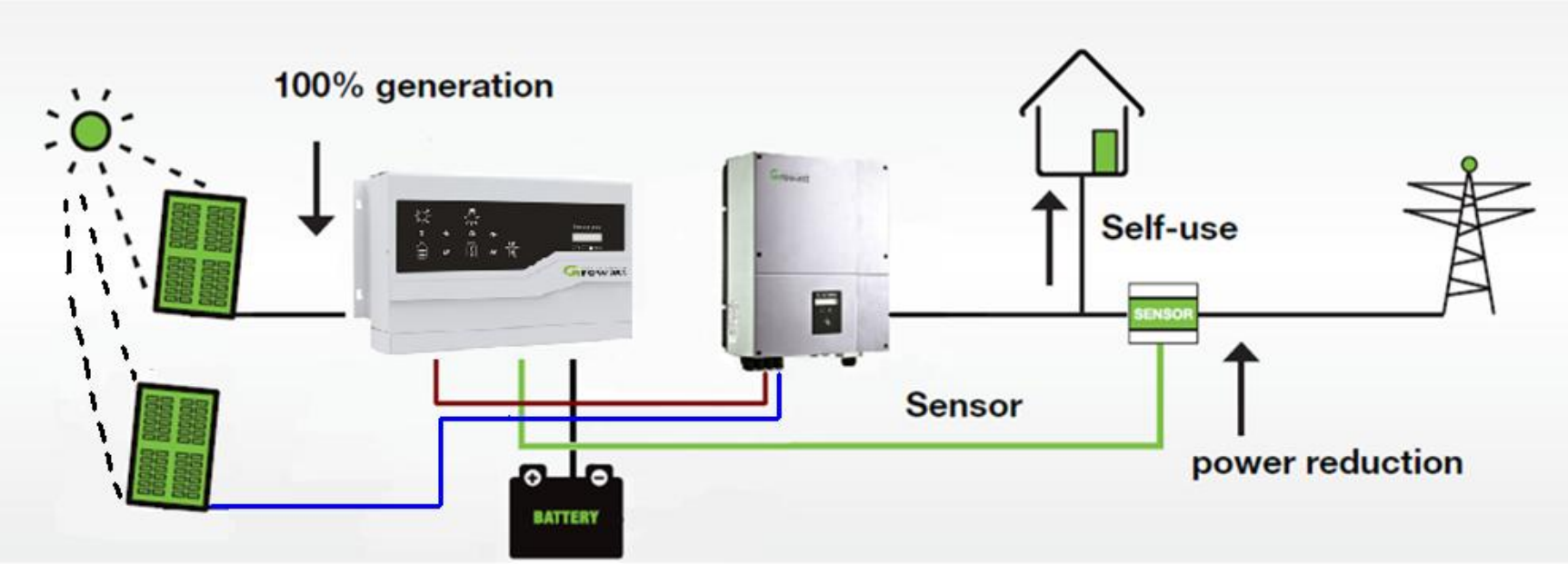
PV Installation with Battery

Advantage 2: Can be compatible with other brands inverters

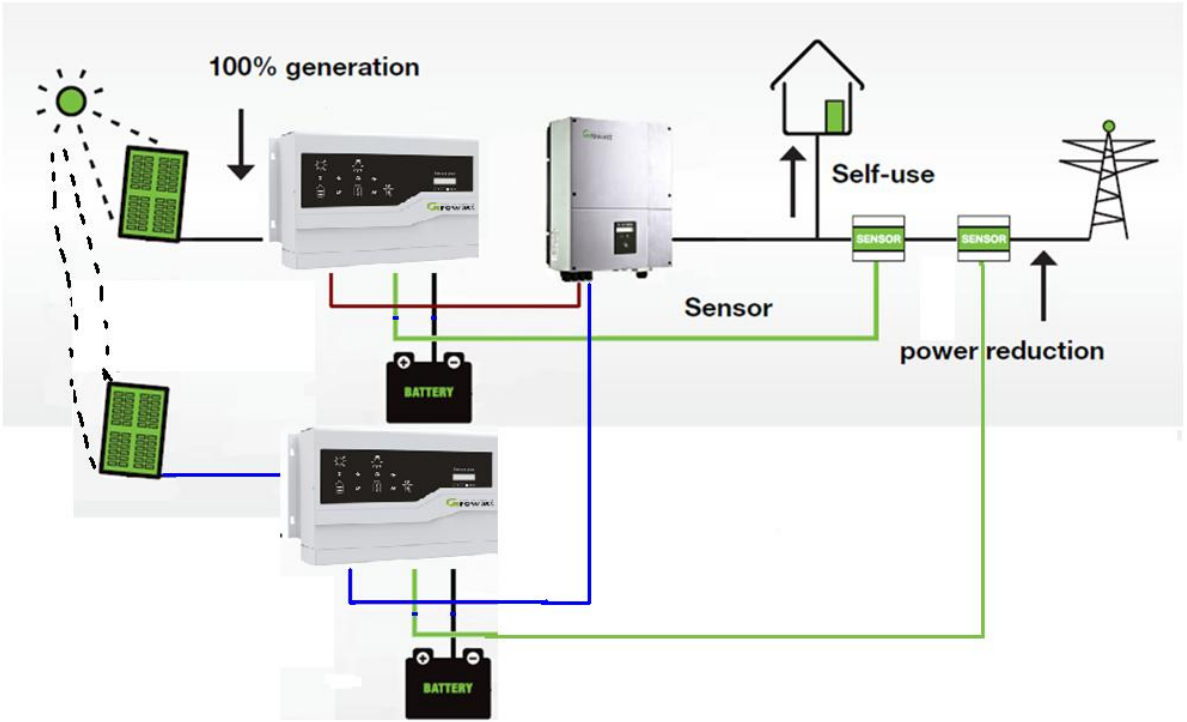
For 1-phase with 1 MPPT system



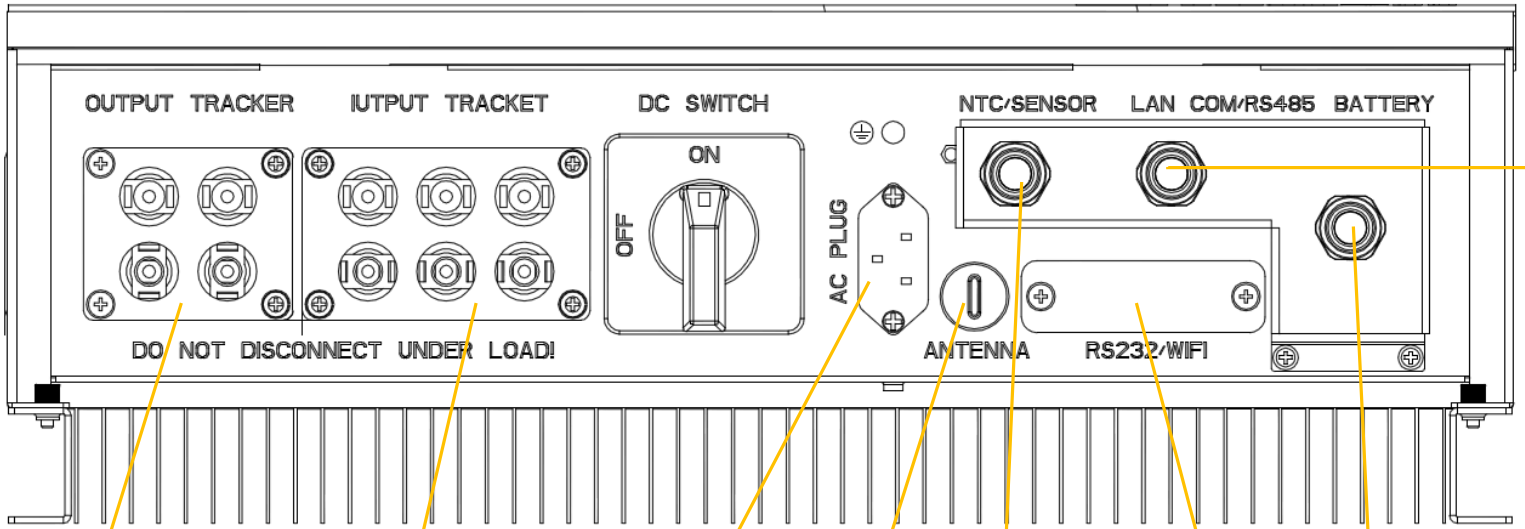
For 1-phase with 2 MPPTs system (Small power)



For 1-phase with 2 MPPTs system (Large power)



How to add into the installed PV plant?



To Inverter

From Solar Array

To AC Voltage Sensor

Reserve Port

To AC Current Sensor

For Wi-Fi Module

For Battery Connection

For Battery Communication

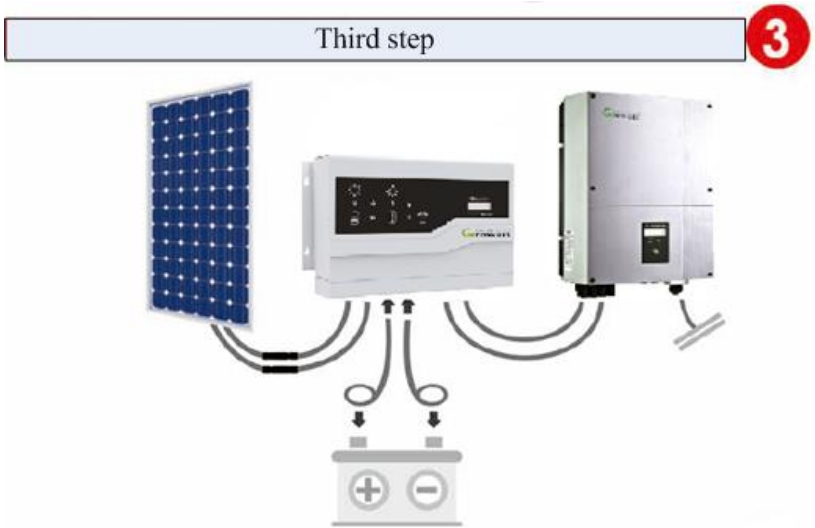
How to add into the installed PV plant?

First step 1

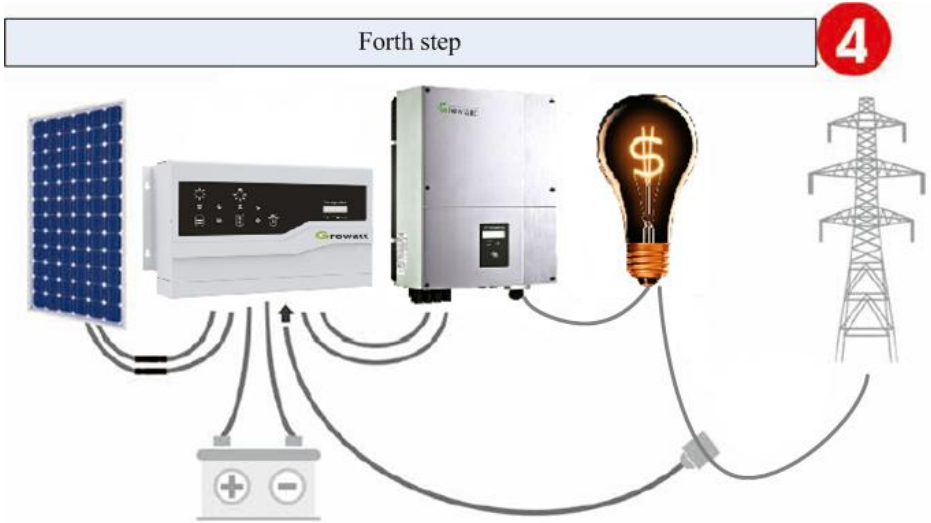
Second step 2

How to add into the installed PV plant?

Third step 3



Forth step 4



Parameters of SP-2000

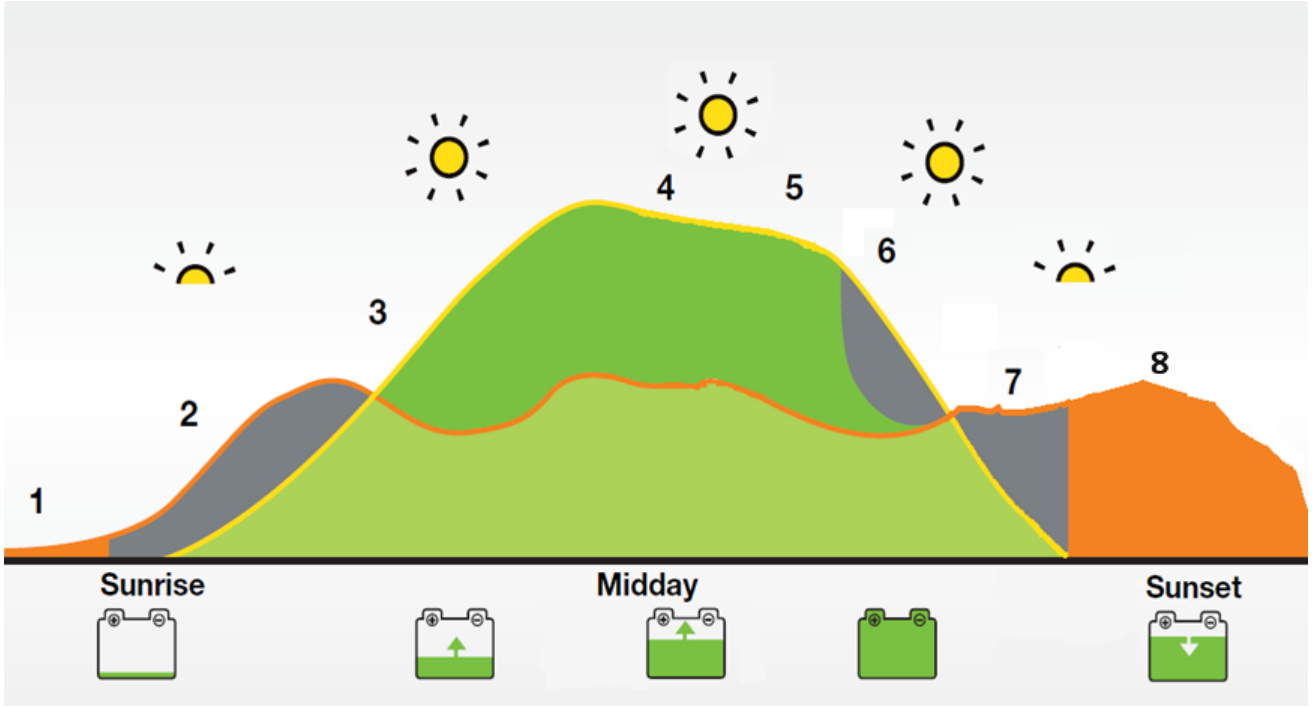
Max input and output power	2000W
Input DC voltage range	100-580VDC
Max SP input current	30A
Output DC voltage range	150-550VDC
Rated output voltage	380VDC
Max output current	13A
MPPTs/Strings per MPPT	1 / 3
Output strings	2

Parameters of SP2000

Warranty	5 years
Communication	RS232/Ethernet (opt) /Wi-Fi（opt）
Display	LED+LCD
Operating temperature range	0℃~+40℃
Environmental Protection Rating	IP20 （indoor use）
Cooling concept	Natural
Noise emission	≤25dB (typical)
Certificates	CE

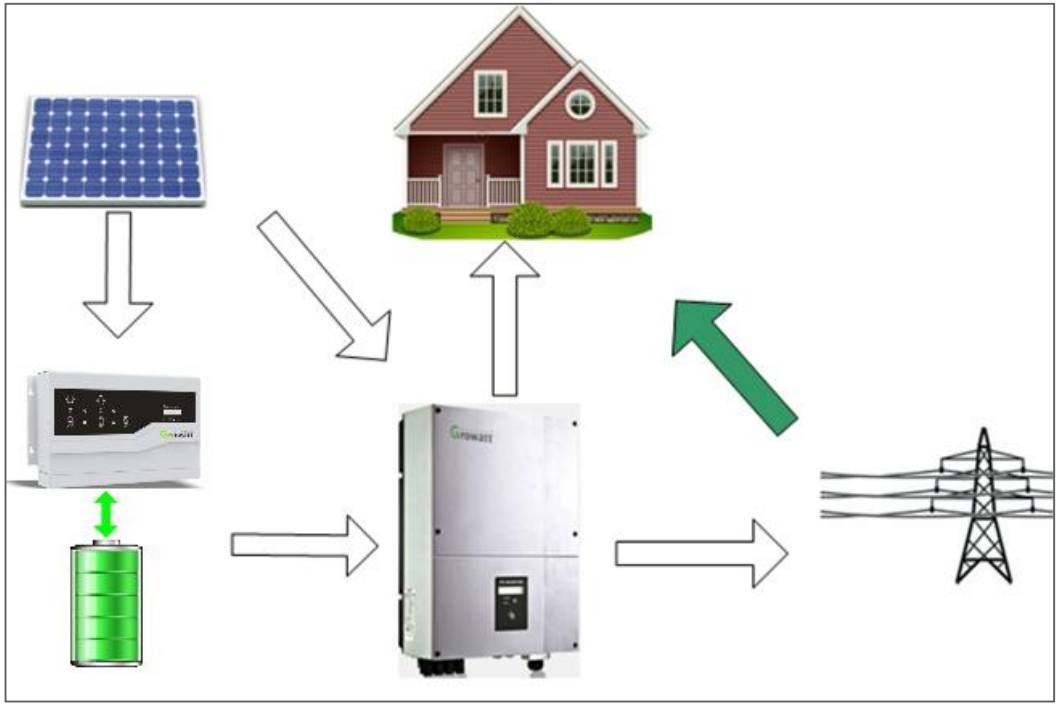
Parameters of Battery	
Life (25^{0}C)	10 years
Life (40^0)	8 years
Life Cycles (80% DOD, 25^{0}C)	> 3000
Storage Time (25^{0}C)	6 Months
Operation Temperature	-25^{0}C ~ 45^{0}C
Max. discharging current	-25^{0}C ~ 45^{0}C
Transport Standard	UN 38.3
EMC Standard	IEC 61000, EN 55022

Parameters of Battery	
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



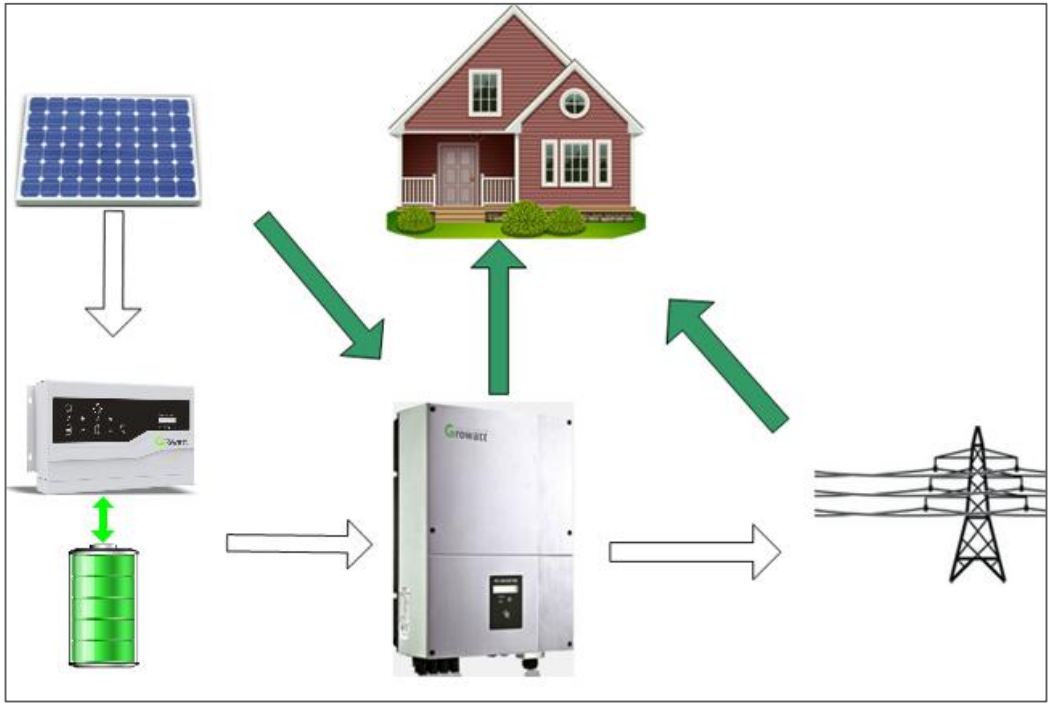
8 modes

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



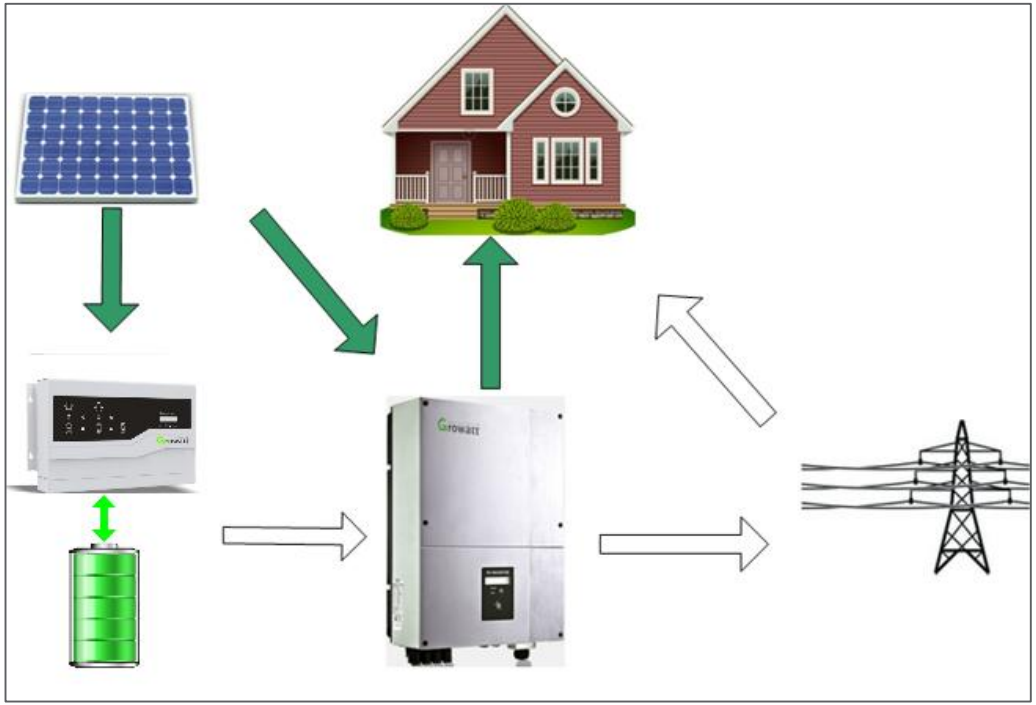
Mode 1

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



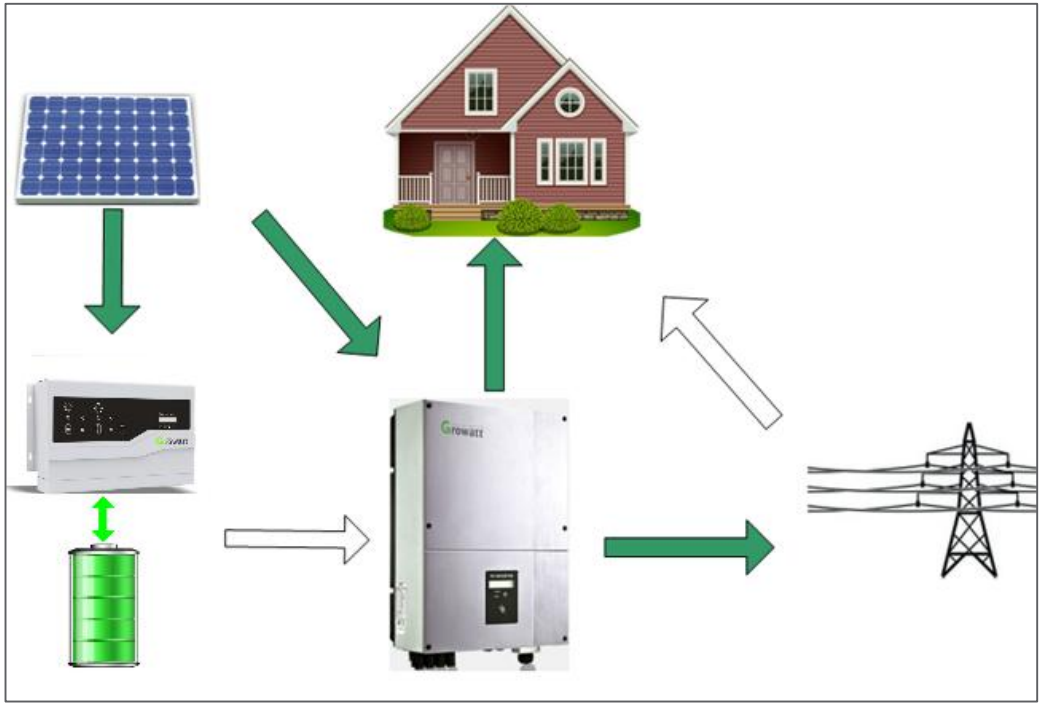
Mode 2

- 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



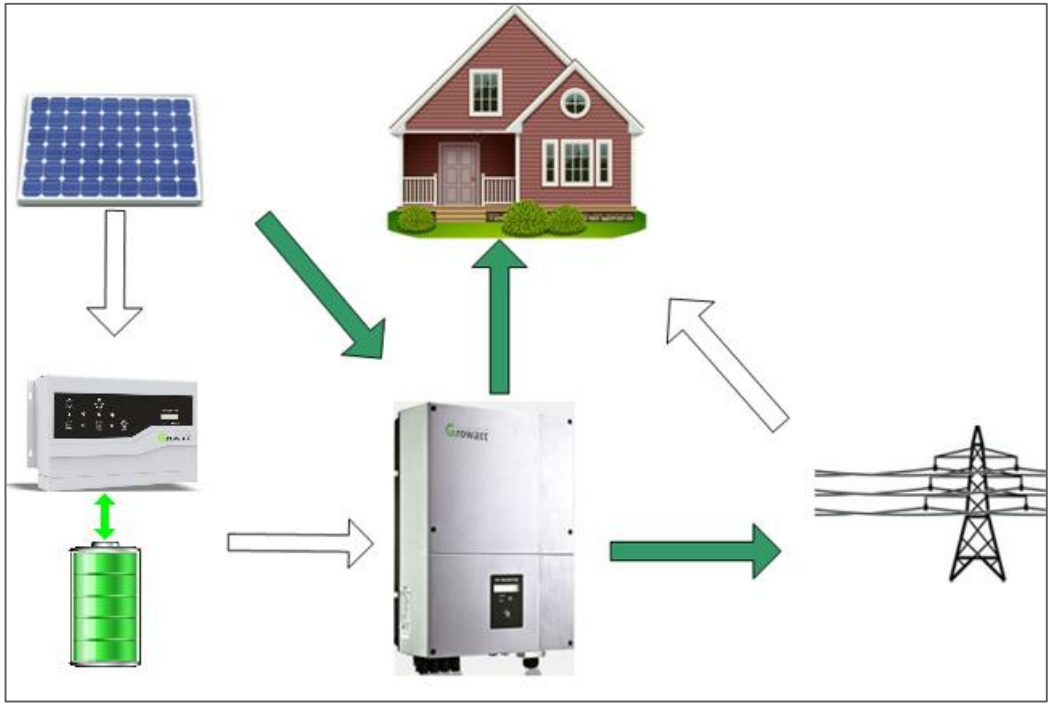
Mode 3

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



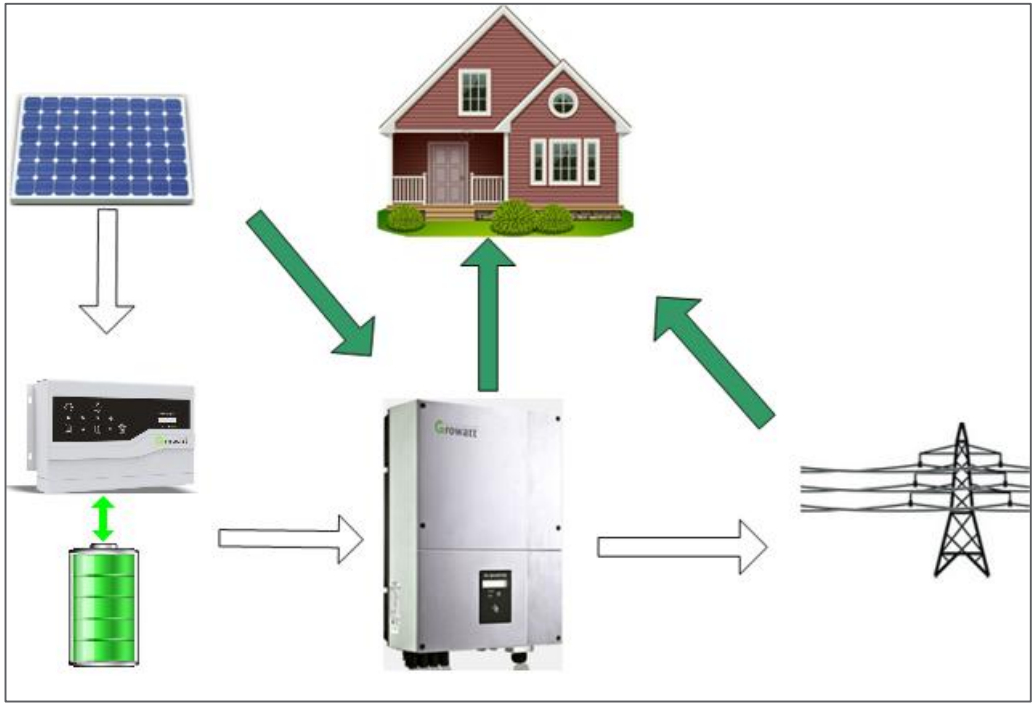
Mode 4

- 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



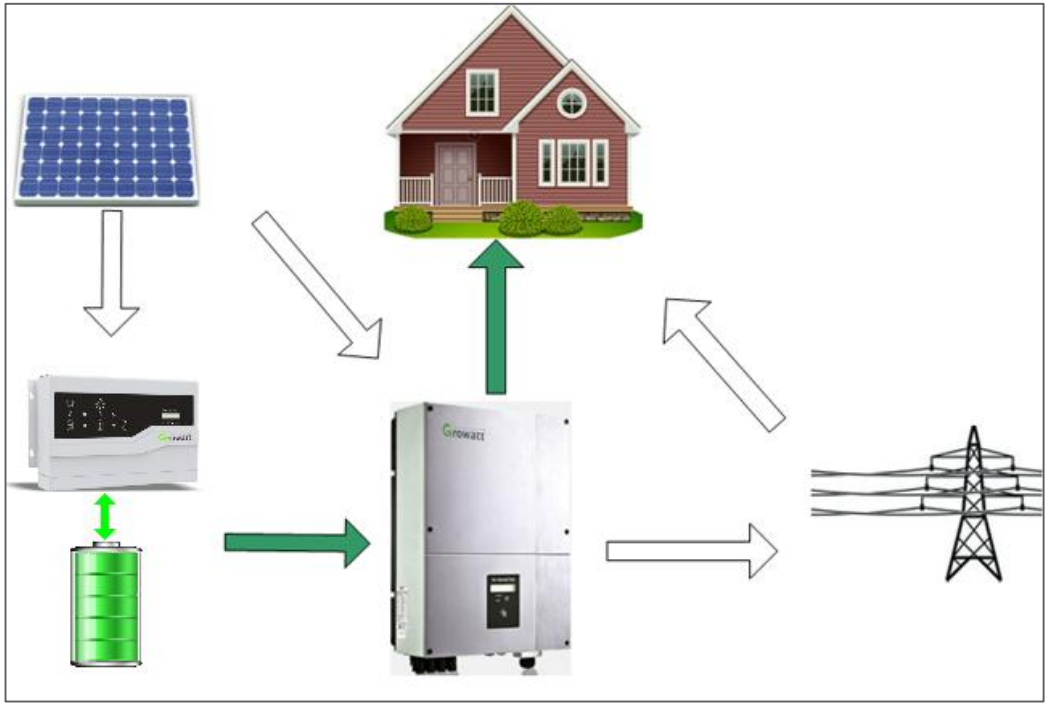
Mode 5

- 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



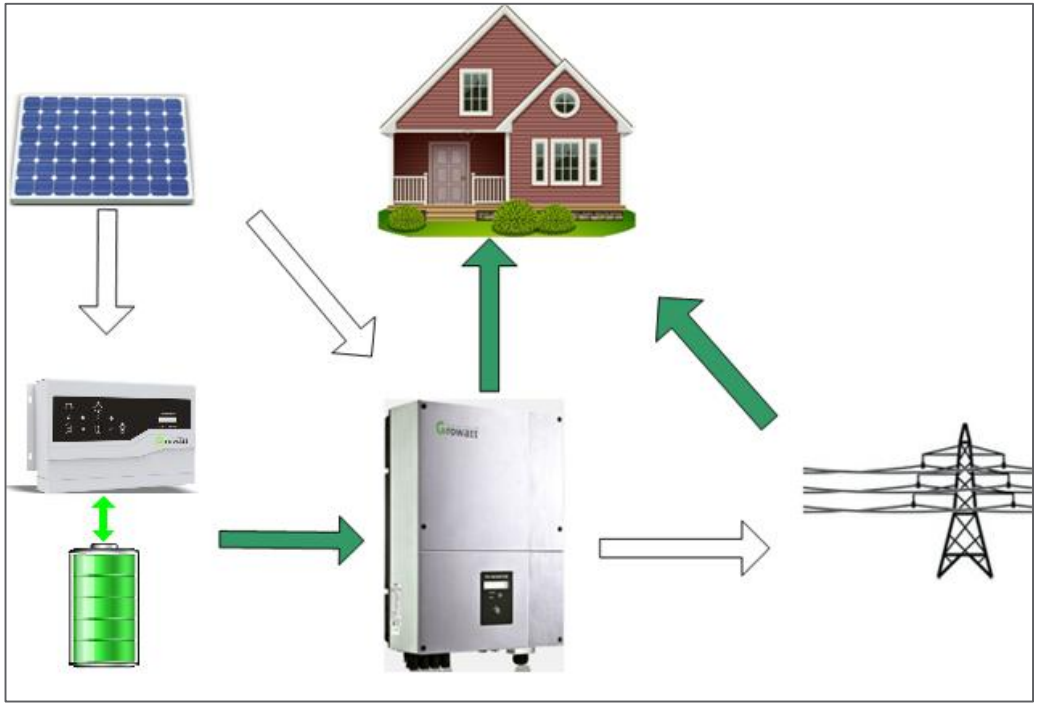
Mode 6

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



Mode 7

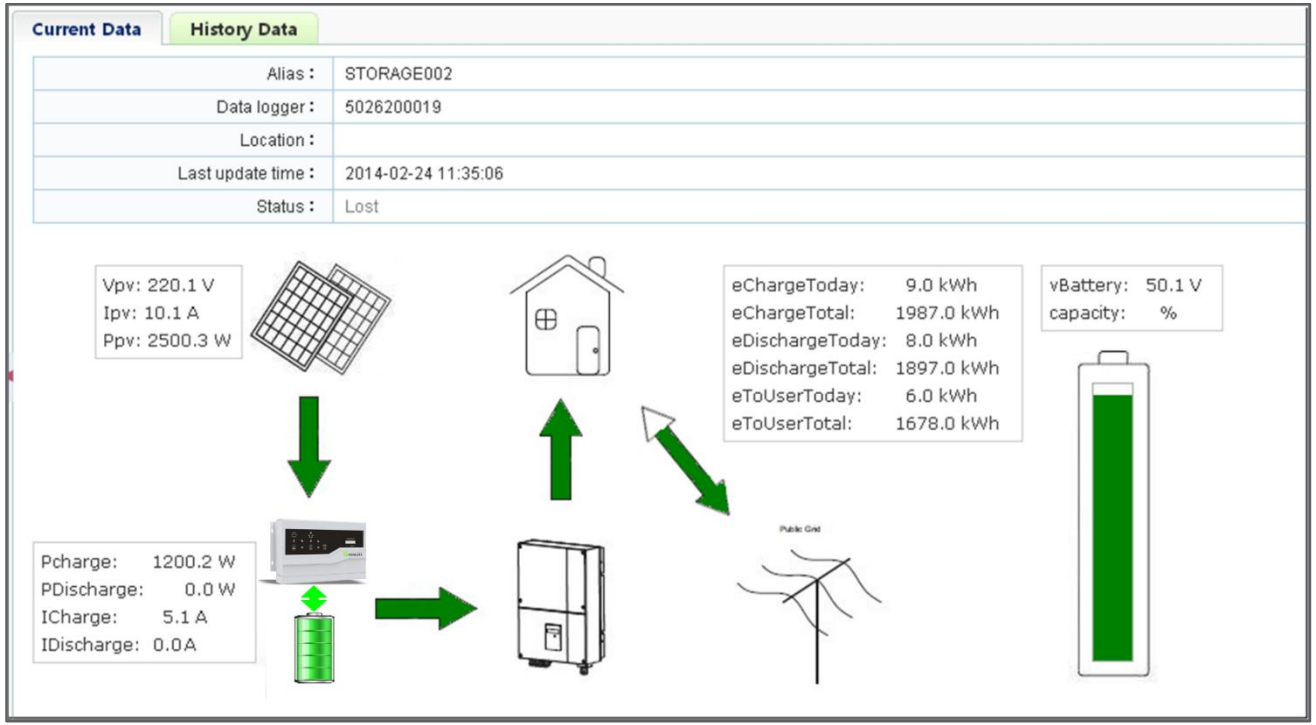
- In the evening
- The battery is been discharging
- No power from panels
- The energy for local load comes from battery



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