

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](#)



Warranty

5 Years

Lifetime

10 Years

Features:

Capacity of battery 5000 Wh

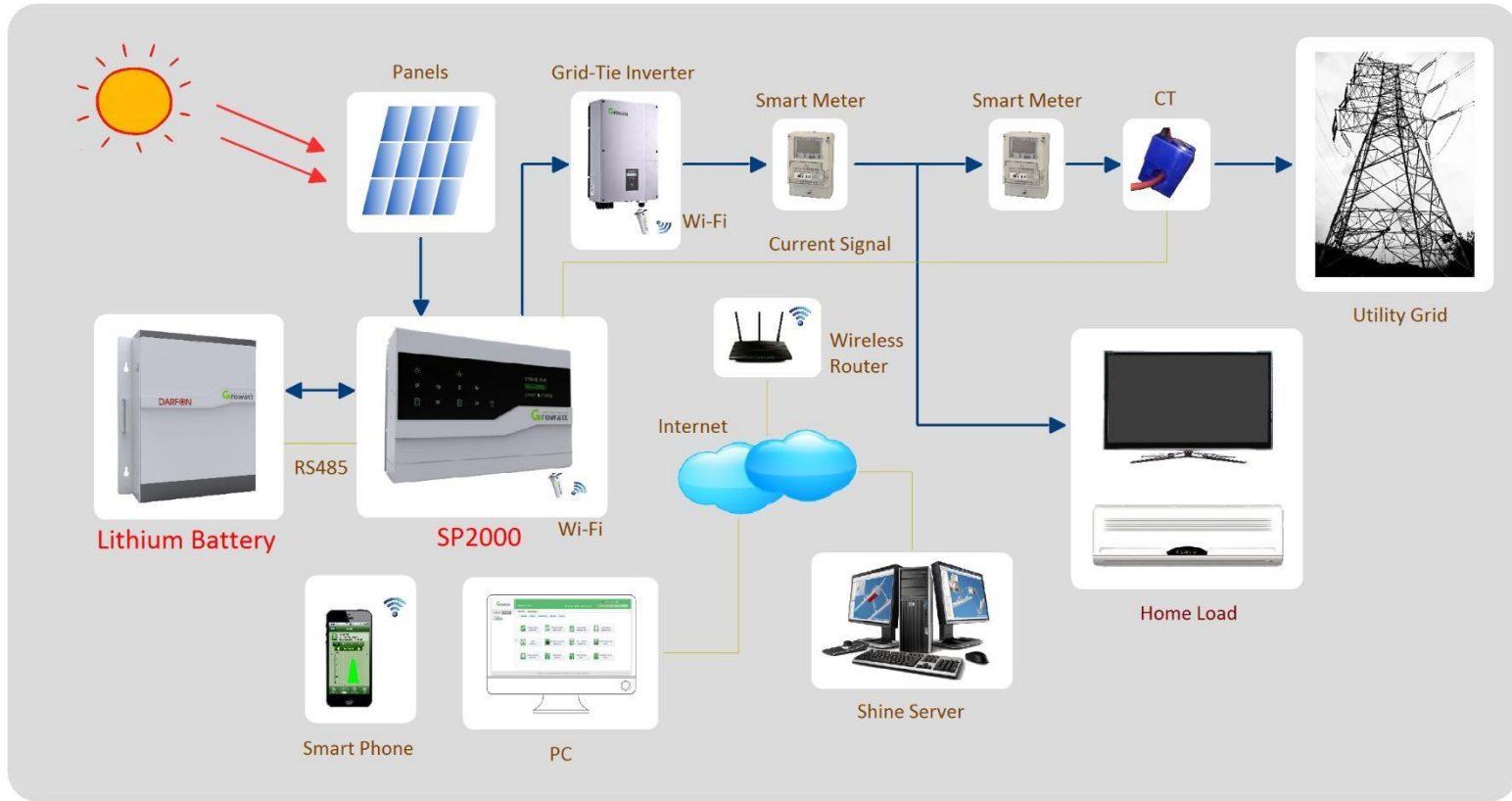
Dimension
(W X H X D) 610*650*148 mm

Weight 45 kg

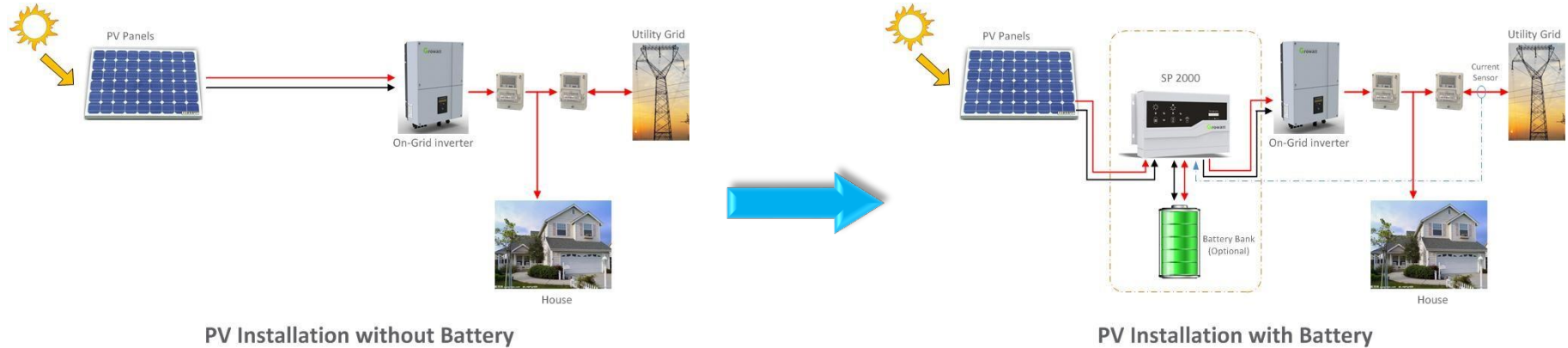
[>> For more details](#)

GBLI 5001





Advantage 1: Retro-fit to existing PV system



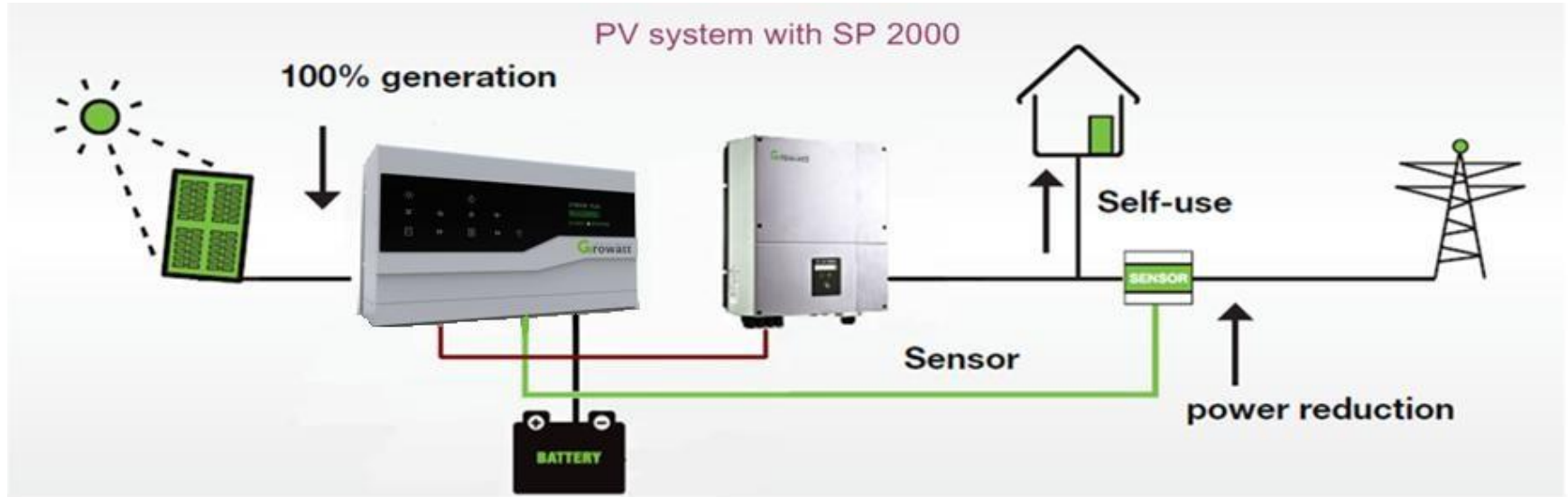
PV Installation without Battery

PV Installation with Battery

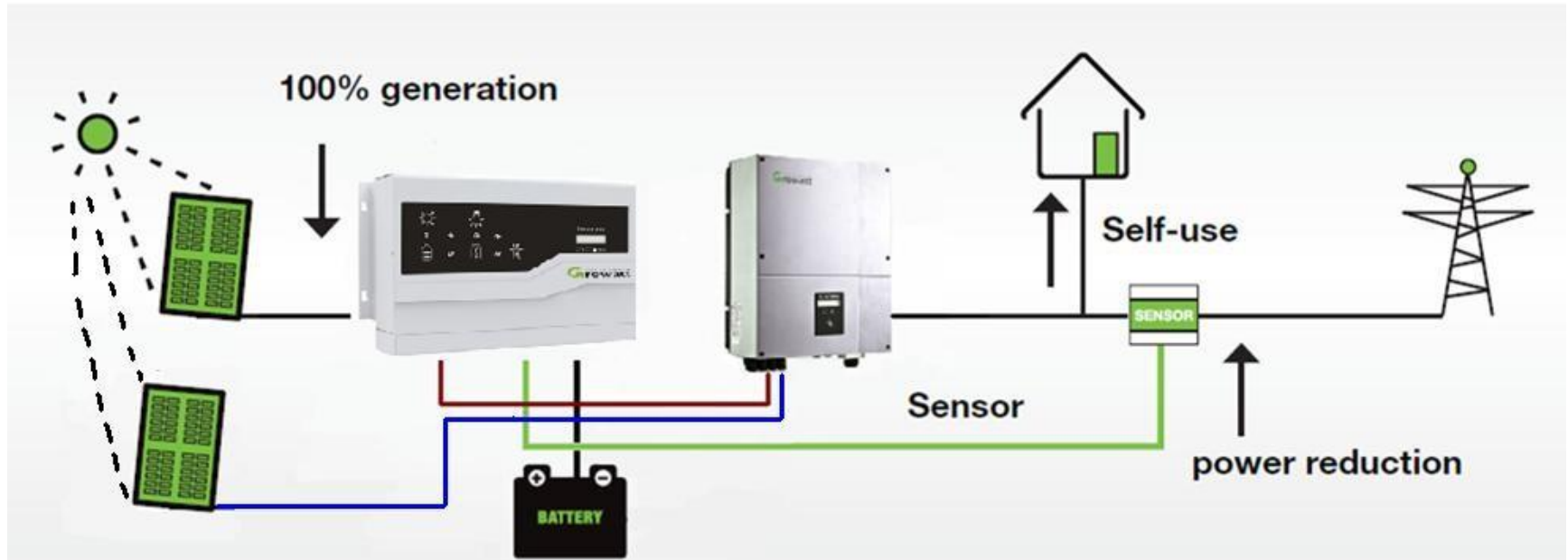
Advantage 2: Compatible with standard string inverters



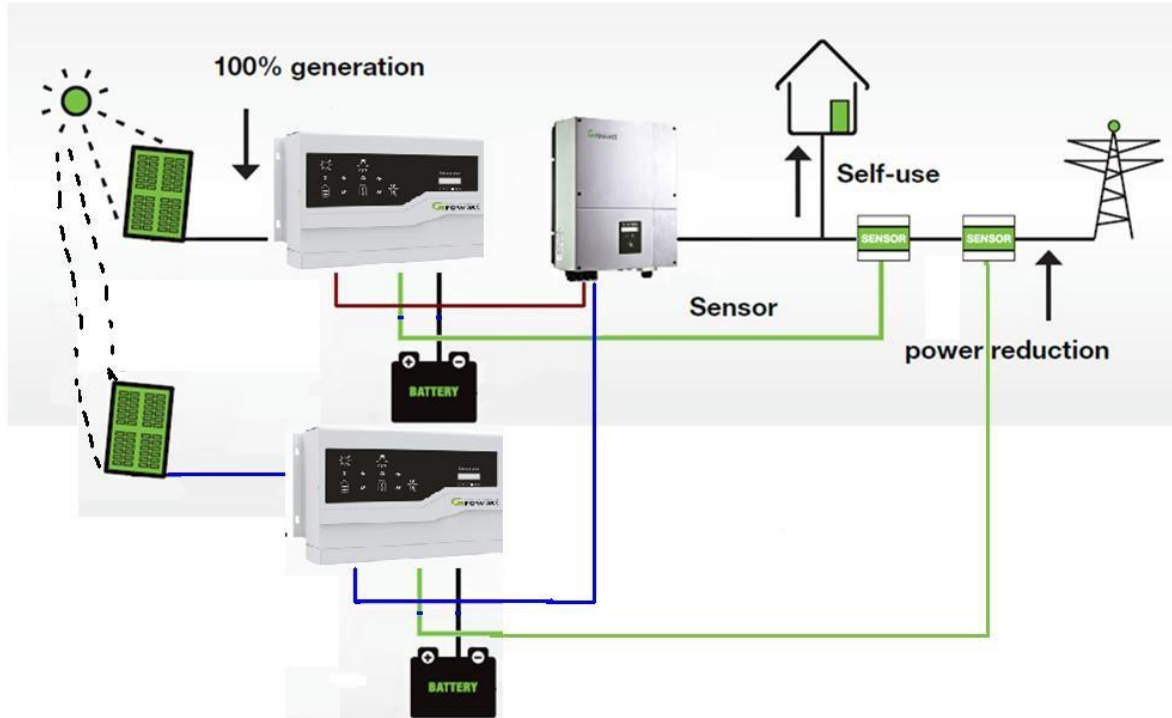
Single-phase with 1 MPPT system



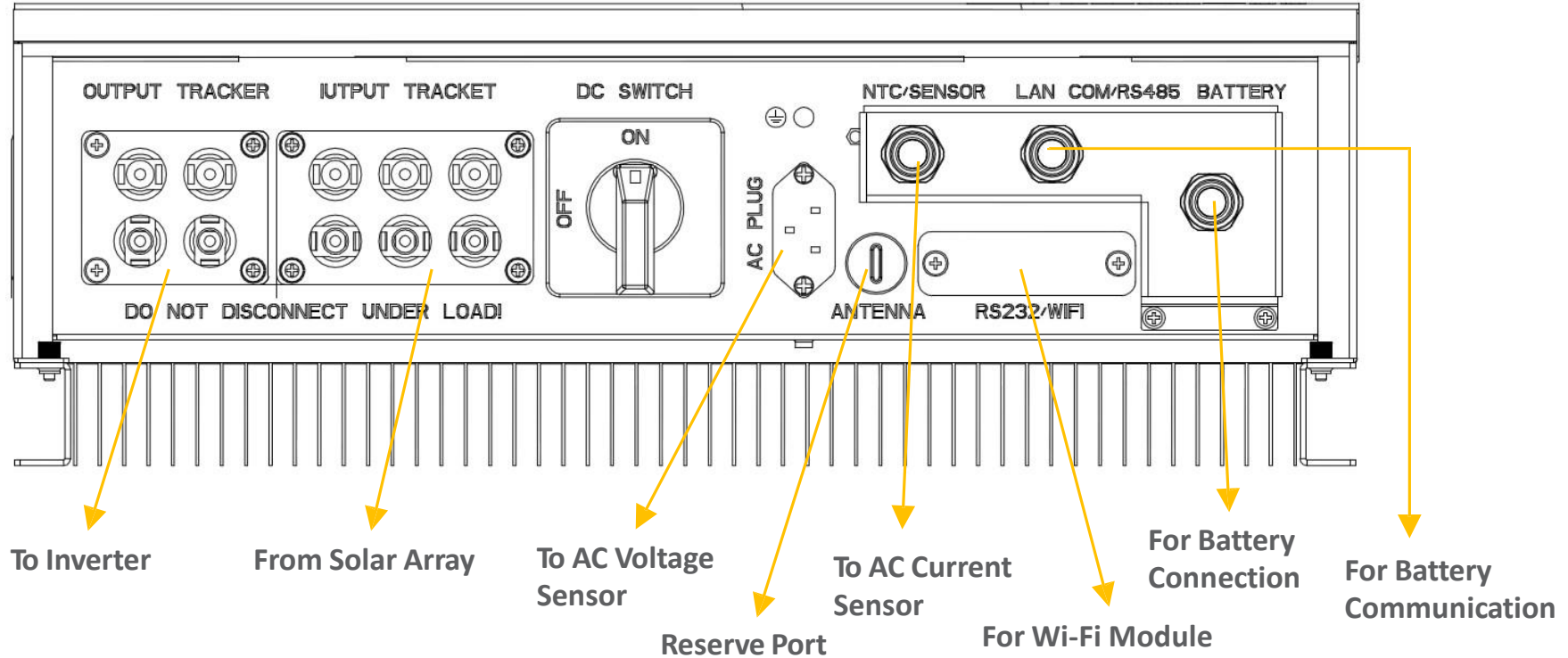
Single-phase with 2 MPPTs system (Small power)



Single-phase with 2 MPPTs system (Large power)



How to connect into an existing PV system



Steps for connecting to an existing system

First step

1



Second step

2



Steps for connecting to an existing system

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°C~+40°C
Environmental Protection Rating	IP20 (indoor use)
Cooling concept	Natural
Noise emission	≤25dB (typical)
Certificates	CE

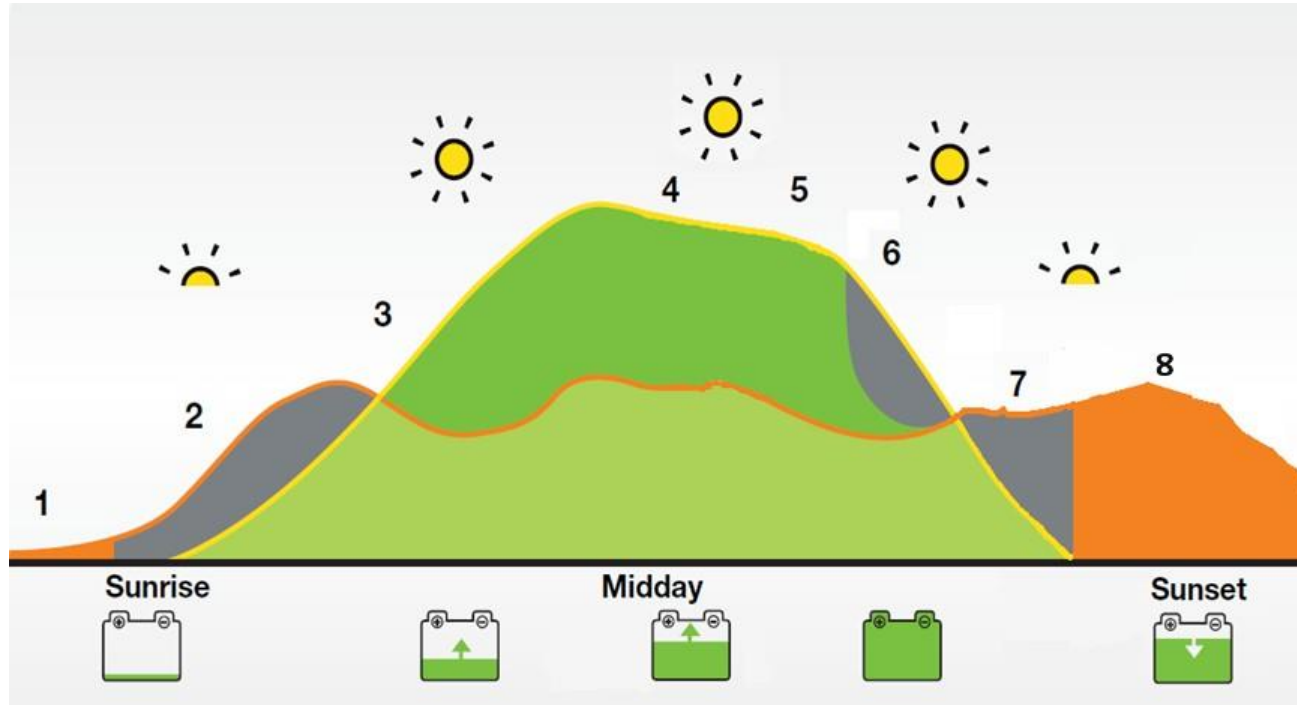
Parameters of Battery

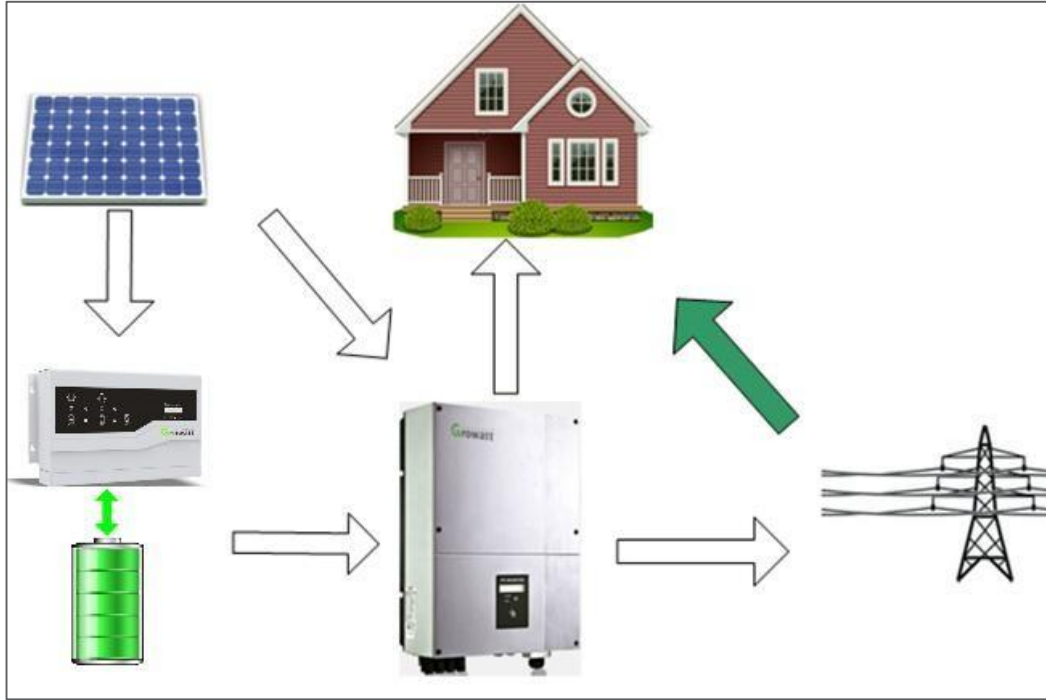
Life (25°C)	10 years
Life (40°)	8 years
Life Cycles (80% DOD, 25°C)	> 3000
Storage Time (25°C)	6 Months
Operation Temperature	-25°C ~ 45°C
Max. discharging current	-25°C ~ 45°C
Transport Standard	UN 38.3
EMC Standard	IEC 61000, EN 55022

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

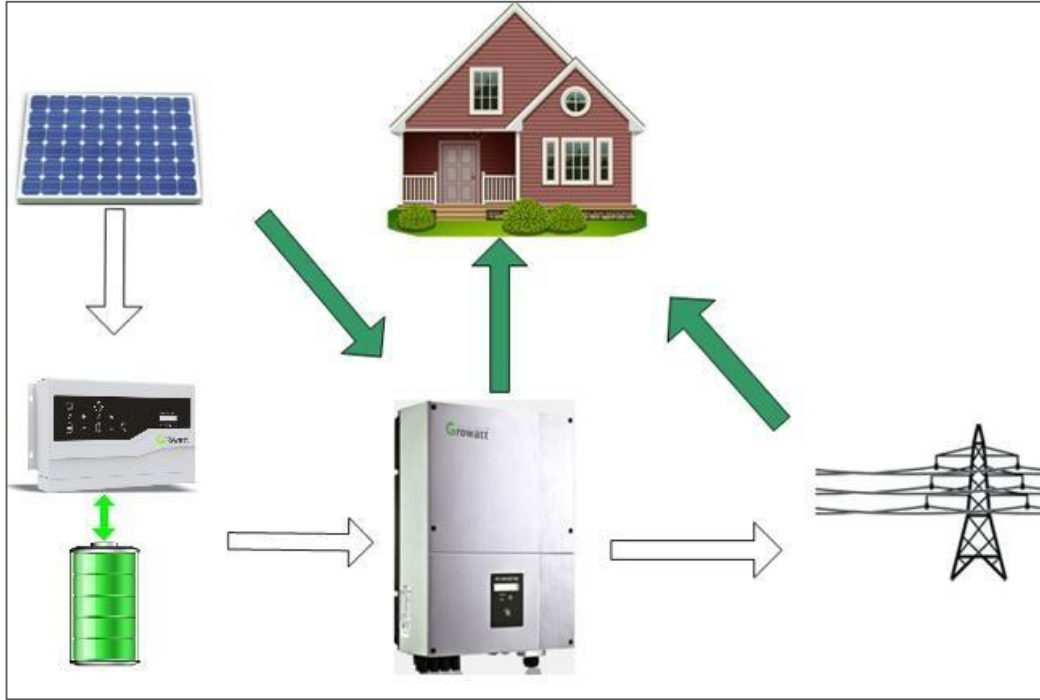
8 modes





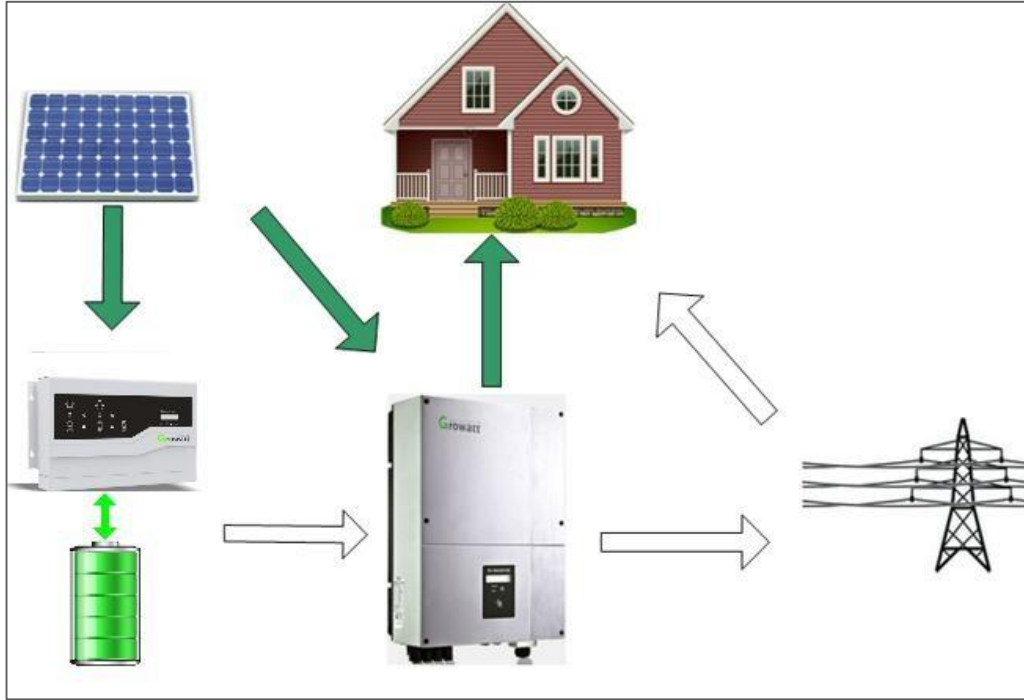
Mode 1

- Early in the day
- The battery is empty
- No power from panels
- Property load supplied by the grid



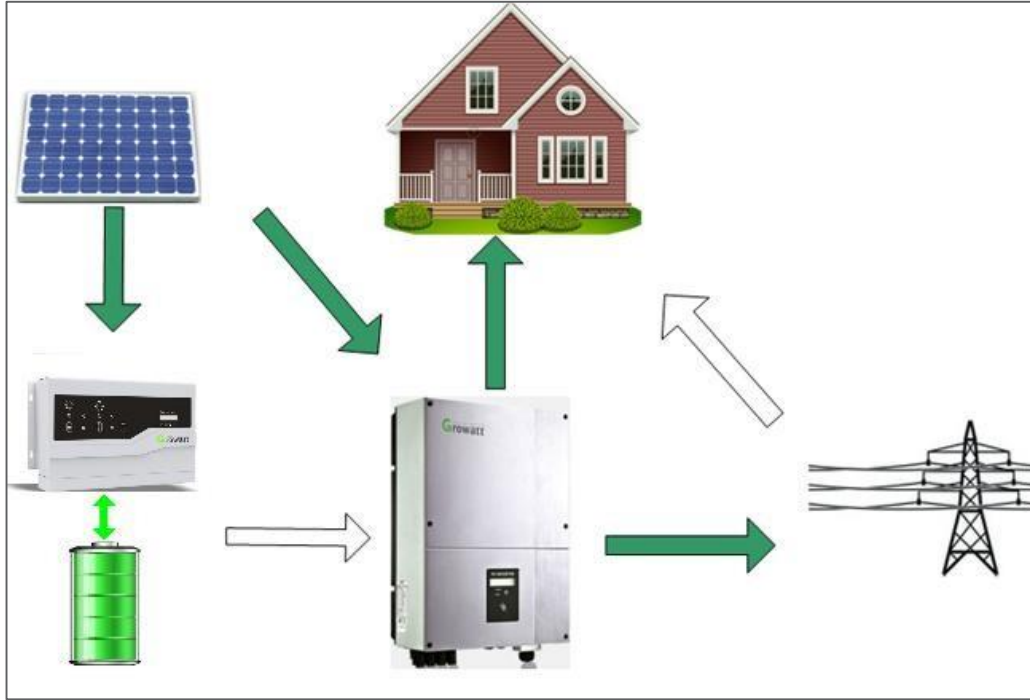
Mode 2

- Early in the day
- The battery is empty
- Some power from panels
- The property demand comes from the panels and the grid



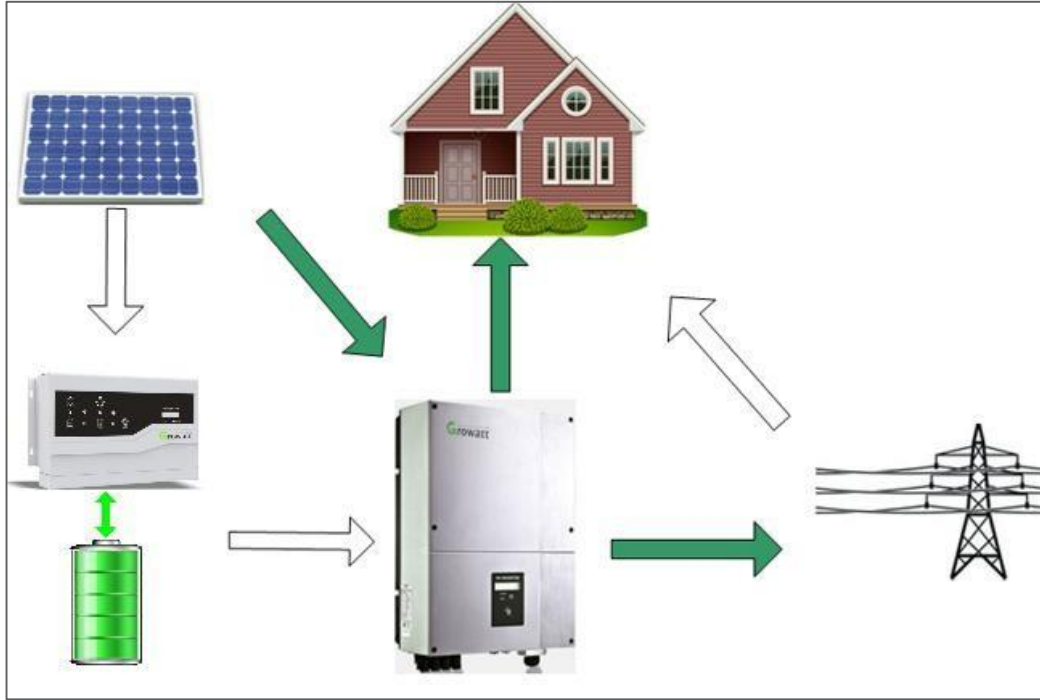
Mode 3

- Mid morning
- Strong generation from the panels
- Property demand supplied by the panels
- Surplus energy charges the batteries



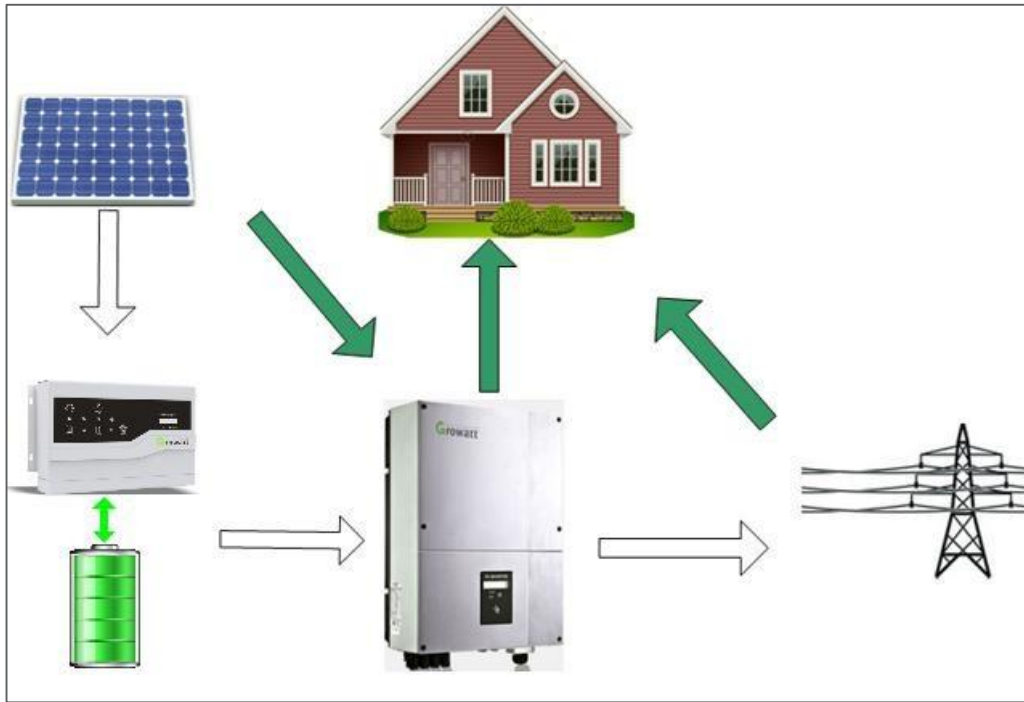
Mode 4

- Mid Day
- Strong generation from the panels
- Property demand supplied by panels
- Batteries on full charge
- Surplus energy from panels is fed to grid



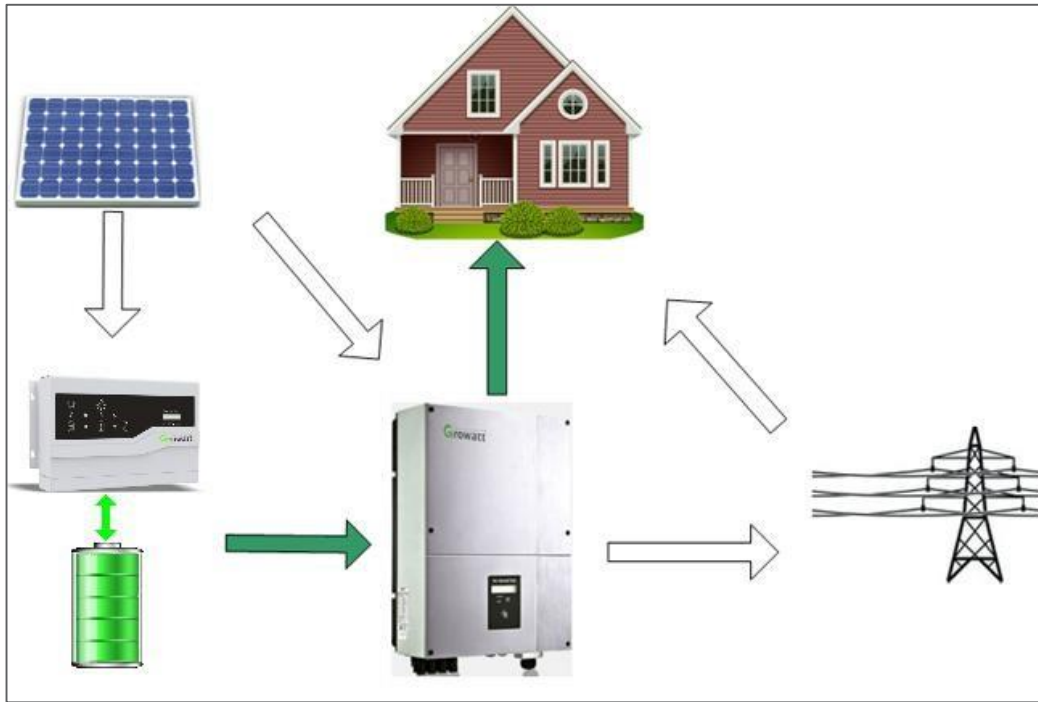
Mode 5

- Early afternoon
- Strong generation from the panels
- The batteries are full
- Property demand supplied by panels
- Surplus energy from panels is fed to grid



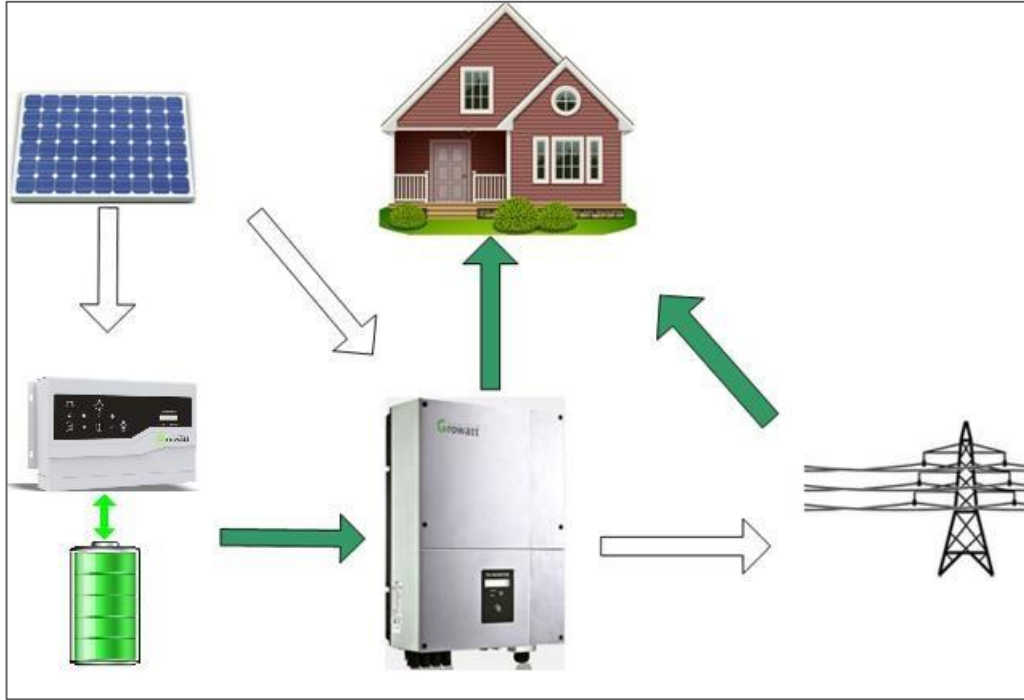
Mode 6

- Late afternoon
- The battery is full
- Weak power from panels
- The property demand supplied by panels and the grid



Mode 7

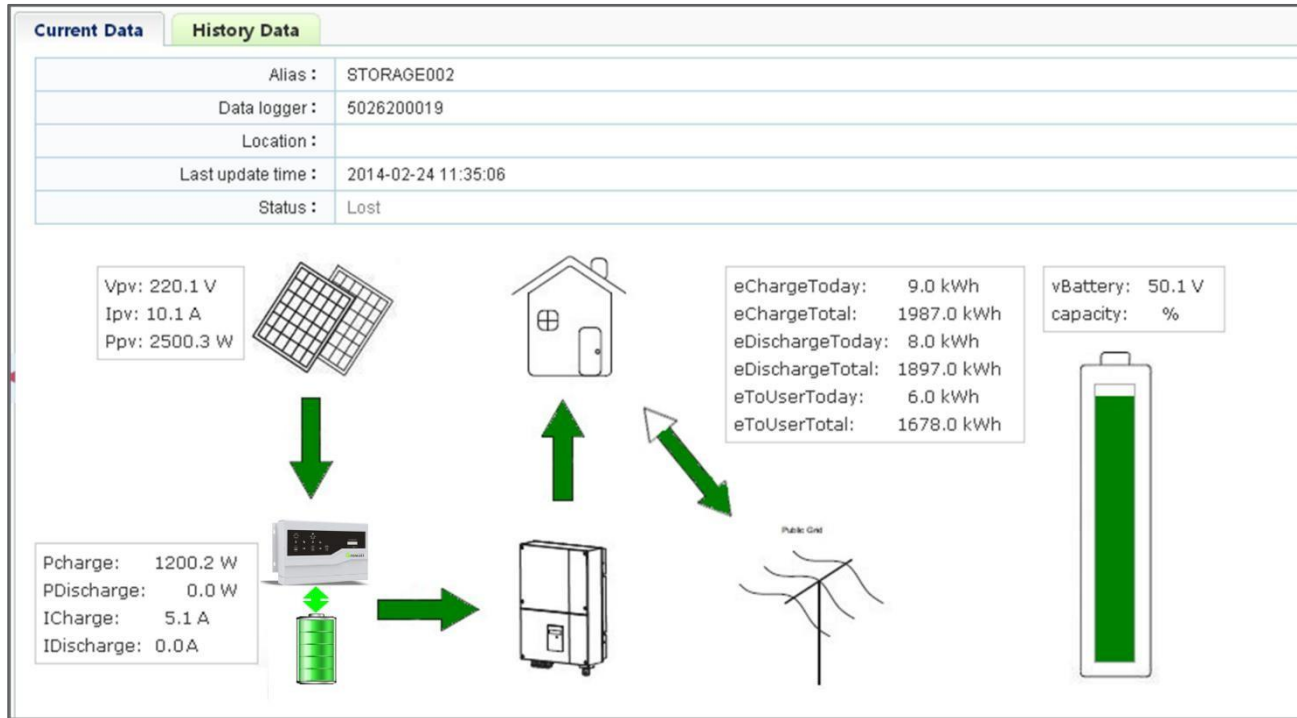
- In the evening
- The panels are no longer generating
- Property demand is supplied by the batteries



Mode 8

- Mid evening
- No generation from the panels
- Property has high demand
- The energy for local load comes from battery and grid (The energy of battery is not enough for property load)

Monitoring System of SP 2000



Main information:

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