

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
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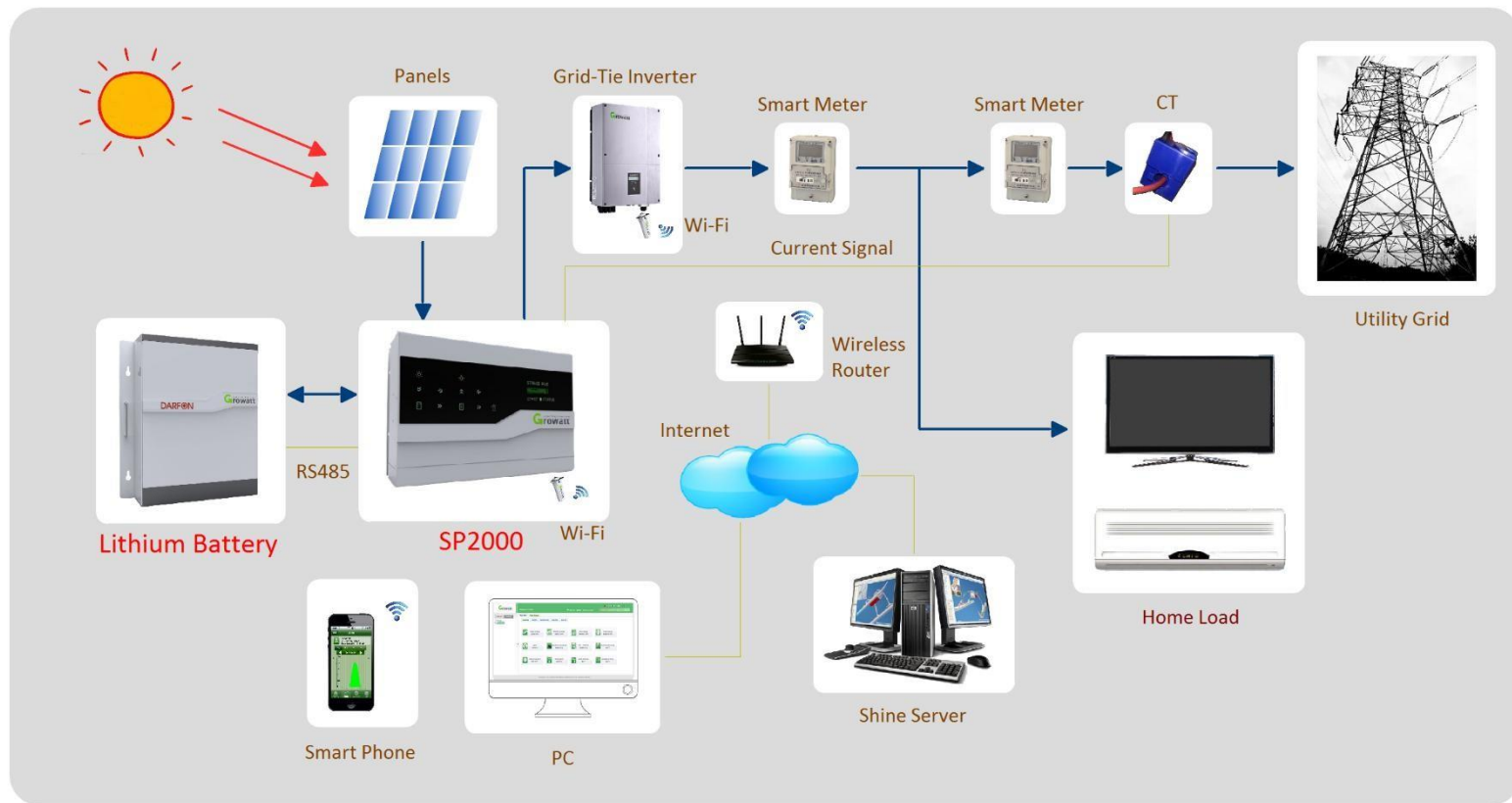
Dimension (W X H X D)	610*650*148 mm
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Weight	45 kg
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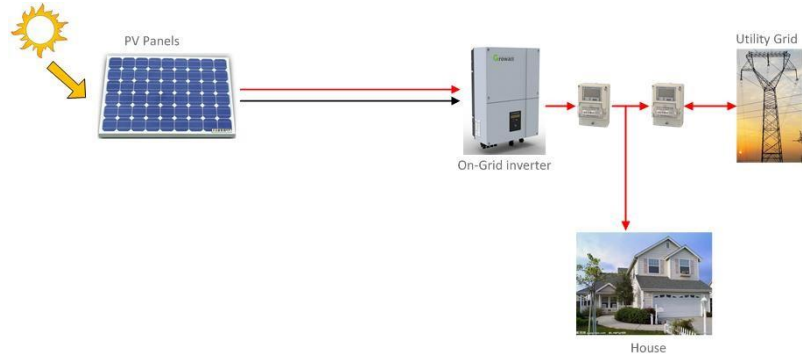
[>> For more details](#)

GBLI 5001

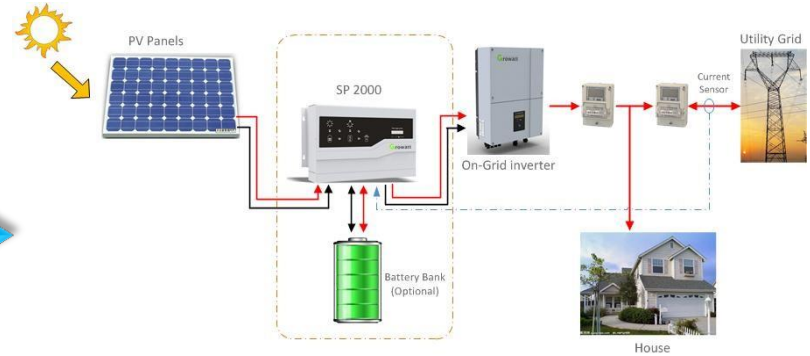




Advantage 1: Retro-fit to existing PV system



PV Installation without Battery

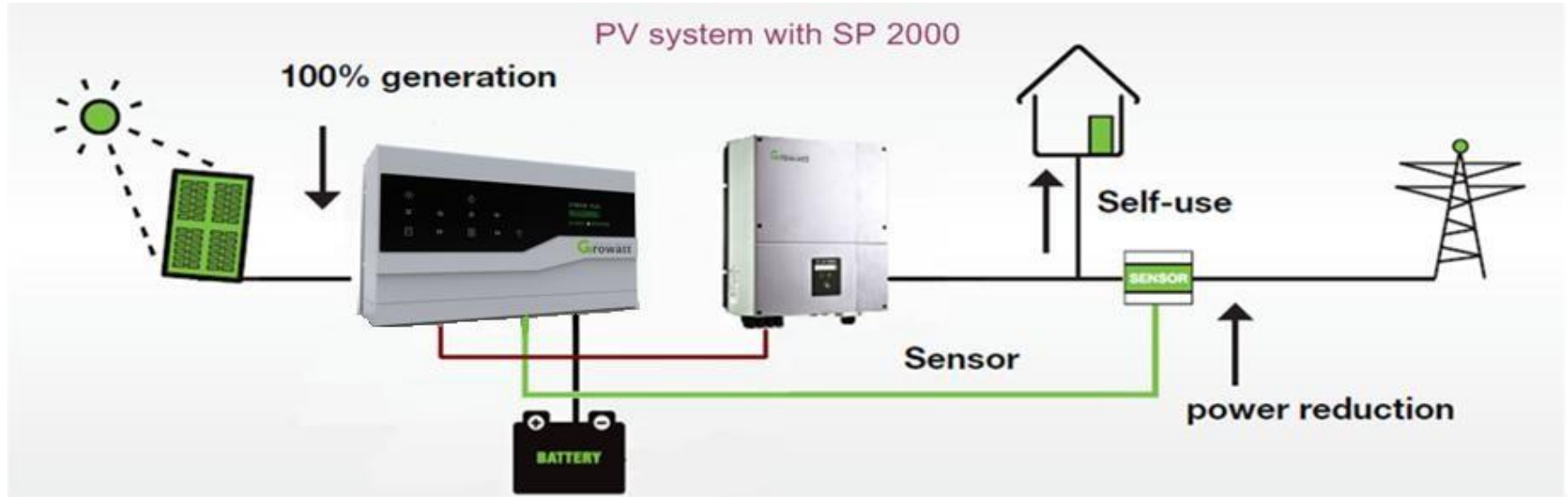


PV Installation with Battery

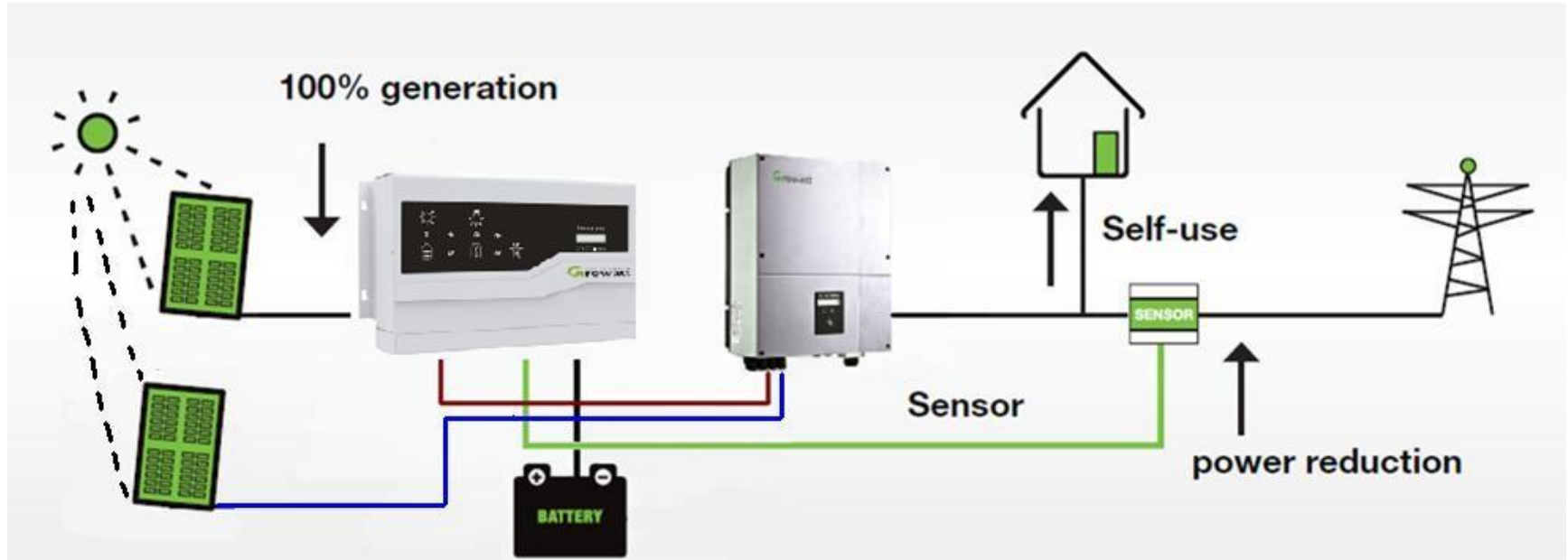
Advantage 2: Compatible with standard string inverters



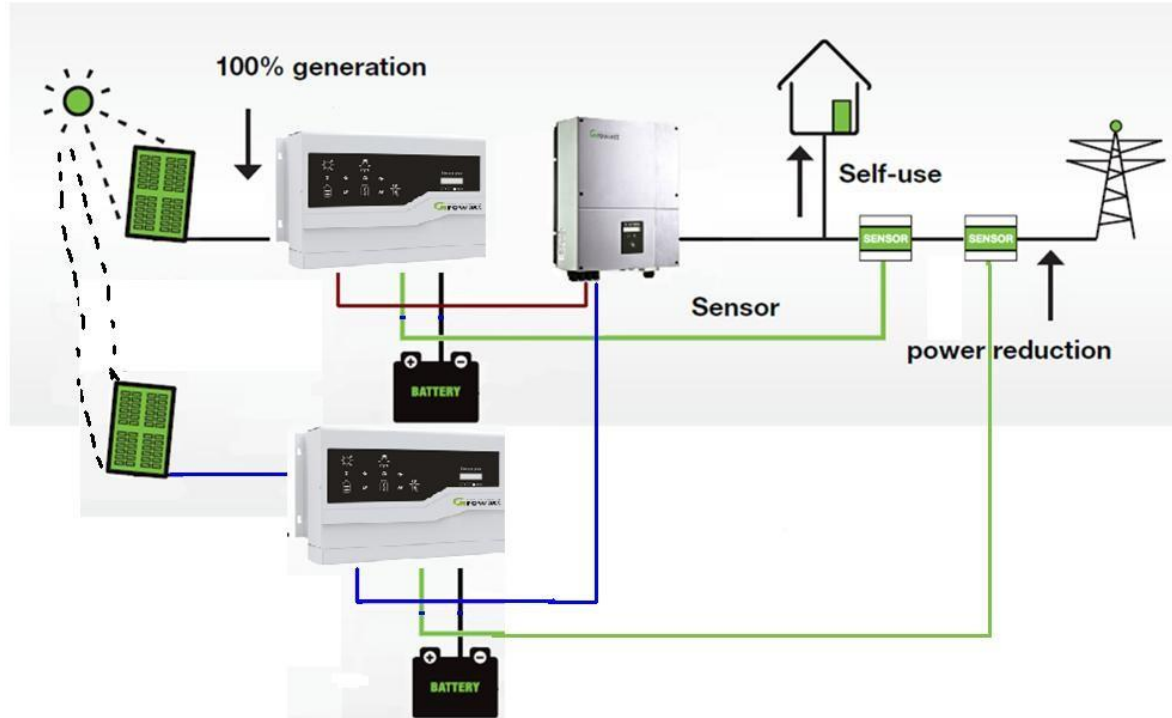
Single-phase with 1 MPPT system



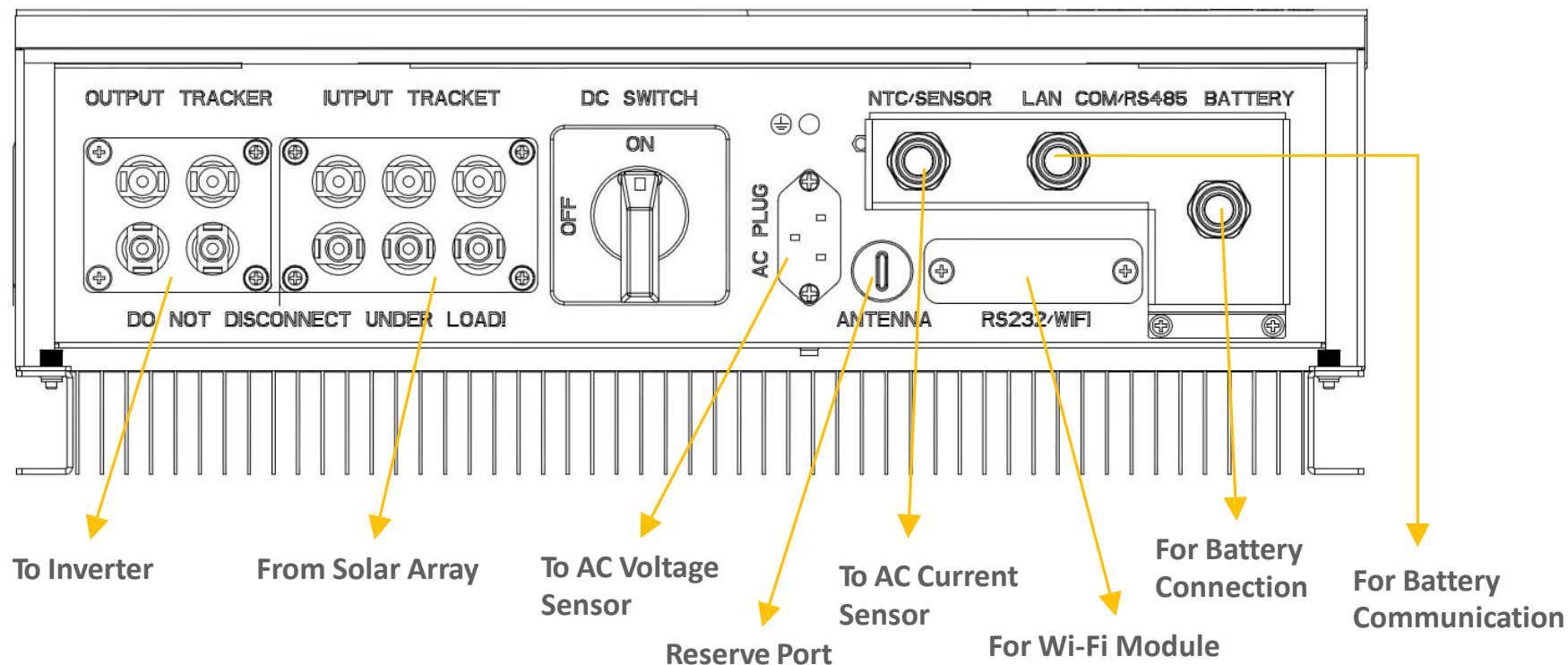
Single-phase with 2 MPPTs system (Small power)



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

Input DC voltage range	100-580VDC
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Output DC voltage range	150-550VDC
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Max output current	13A
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Output strings	2
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Parameters of SP2000

Communication	RS232/Ethernet (opt) /Wi-Fi (opt)
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Operating temperature range	0°C~+40°C
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Cooling concept	Natural
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Certificates	CE
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Parameters of Battery



Life (40°) 8 years



Storage Time (25°C) 6 Months



Max. discharging current -25°C ~ 45°C



EMC Standard IEC 61000, EN 55022

Parameters of Battery



Capacity of battery 52V / 96AH



Deep of discharge 80% DOD

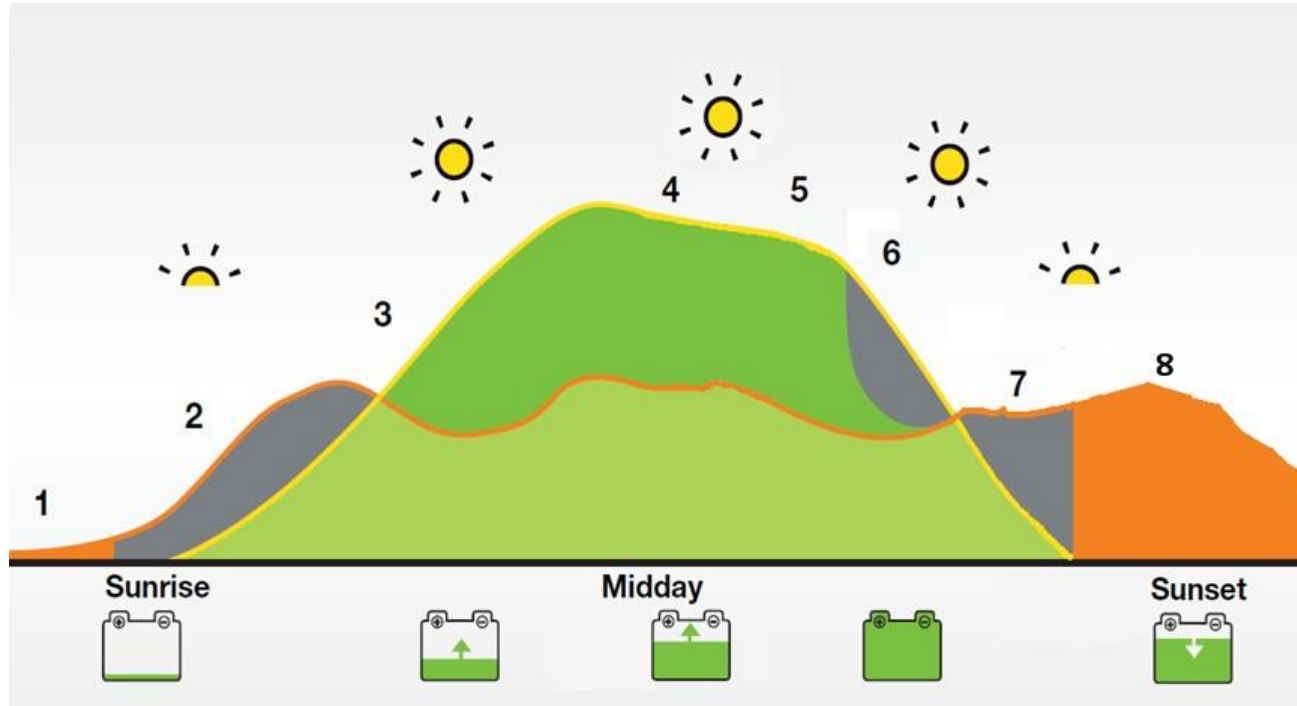


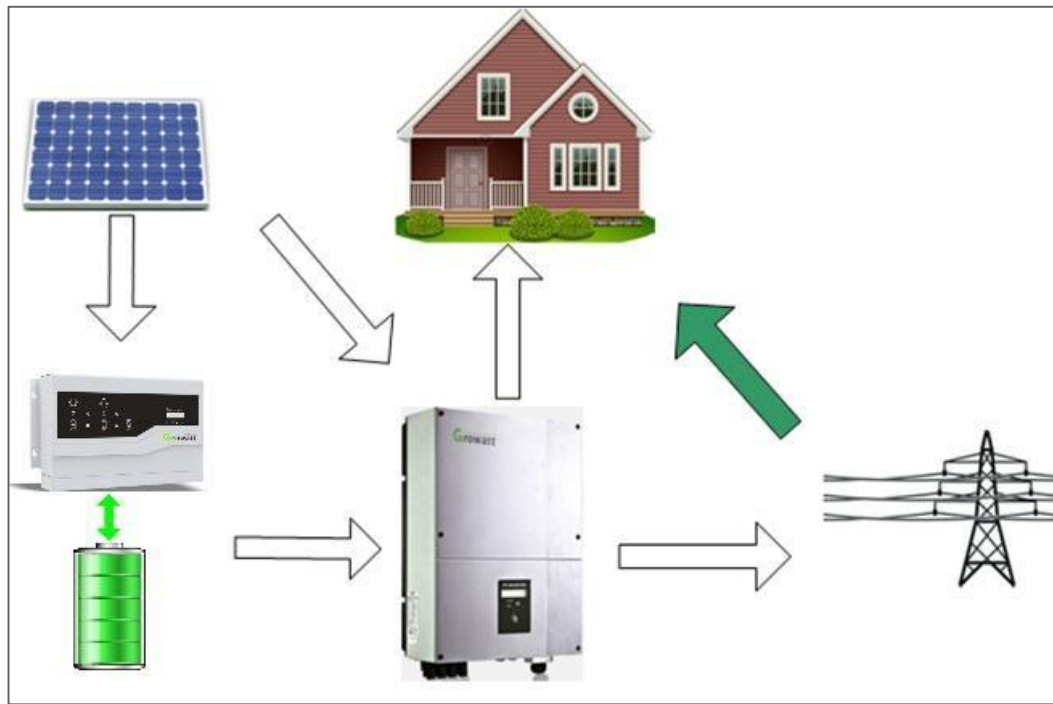
Max. charging voltage 57VDC



Max. charging current ≤45A

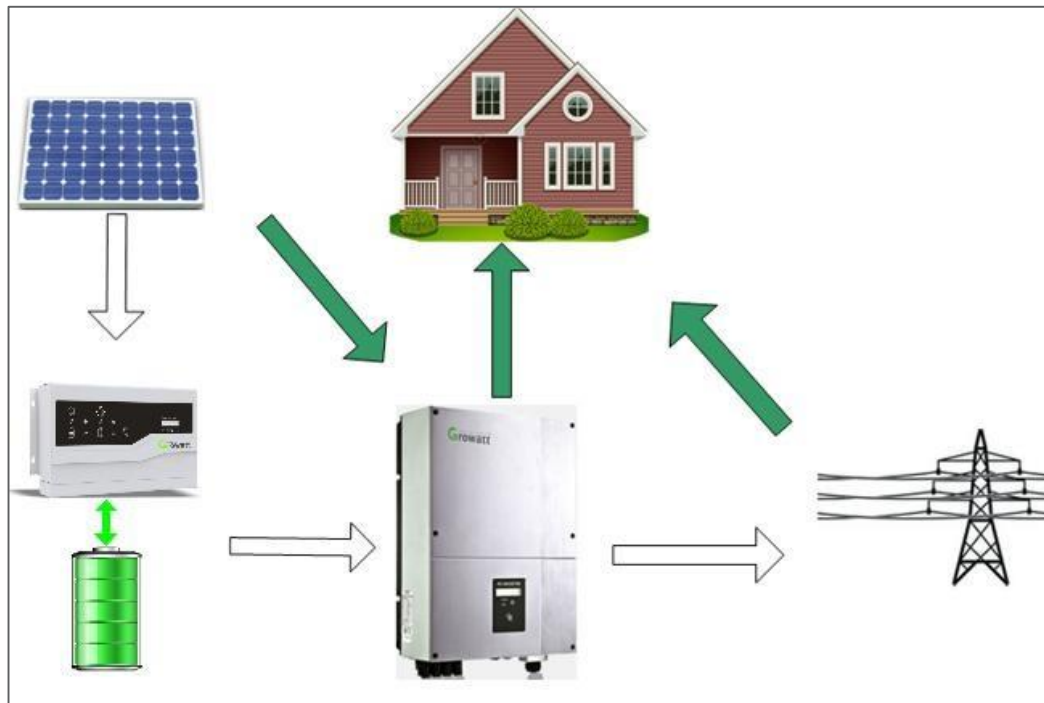
8 modes





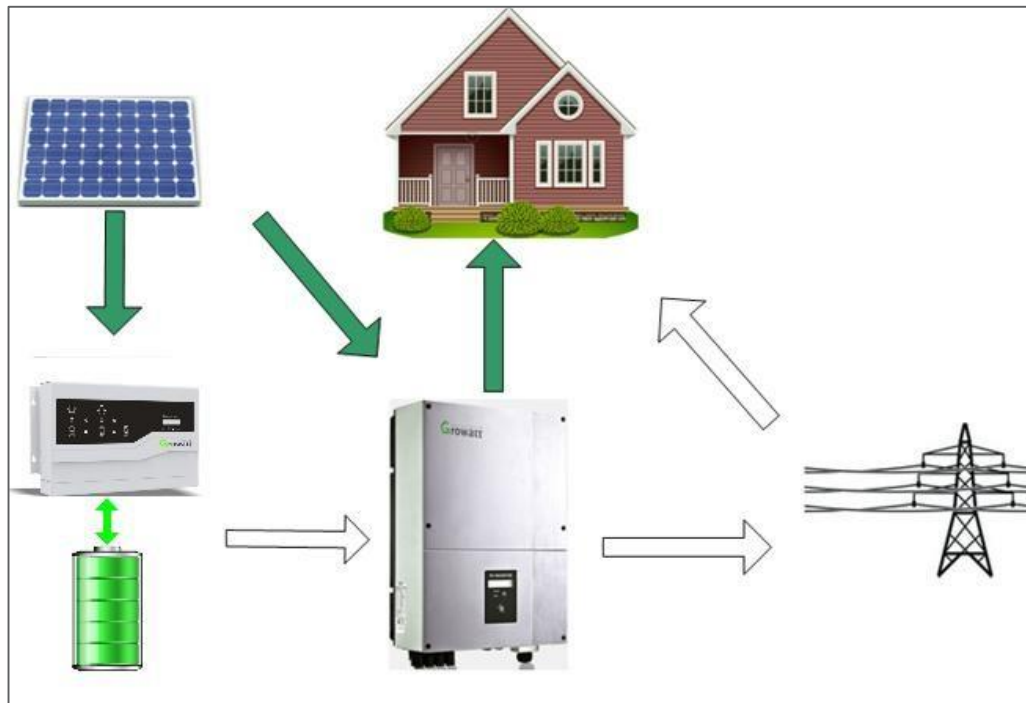
Mode 1

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



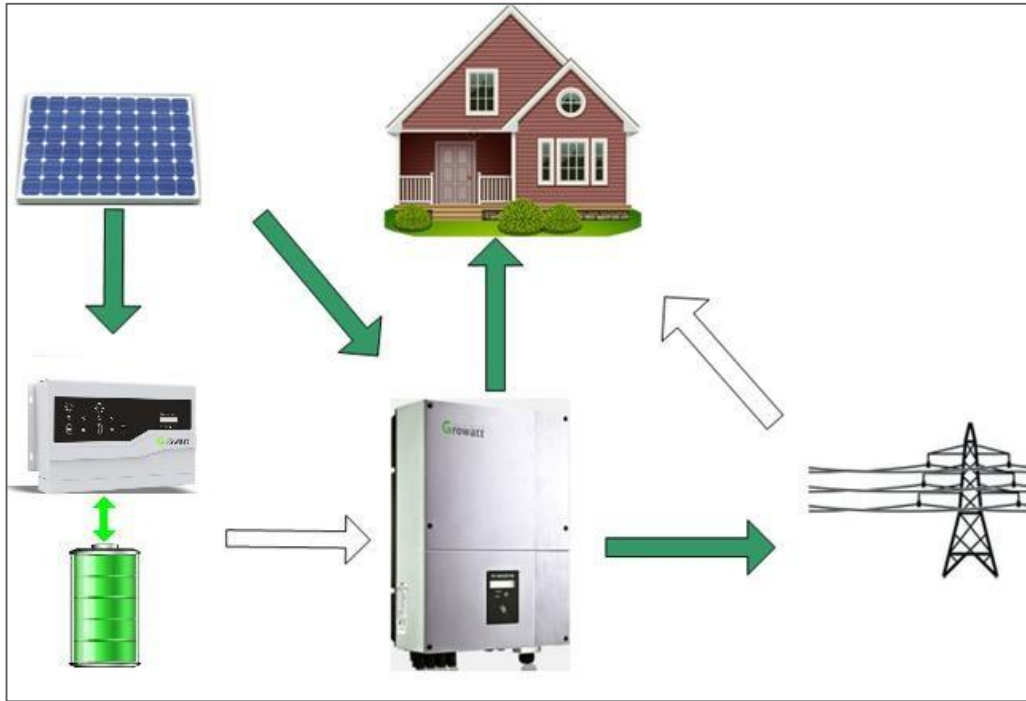
Mode 2

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



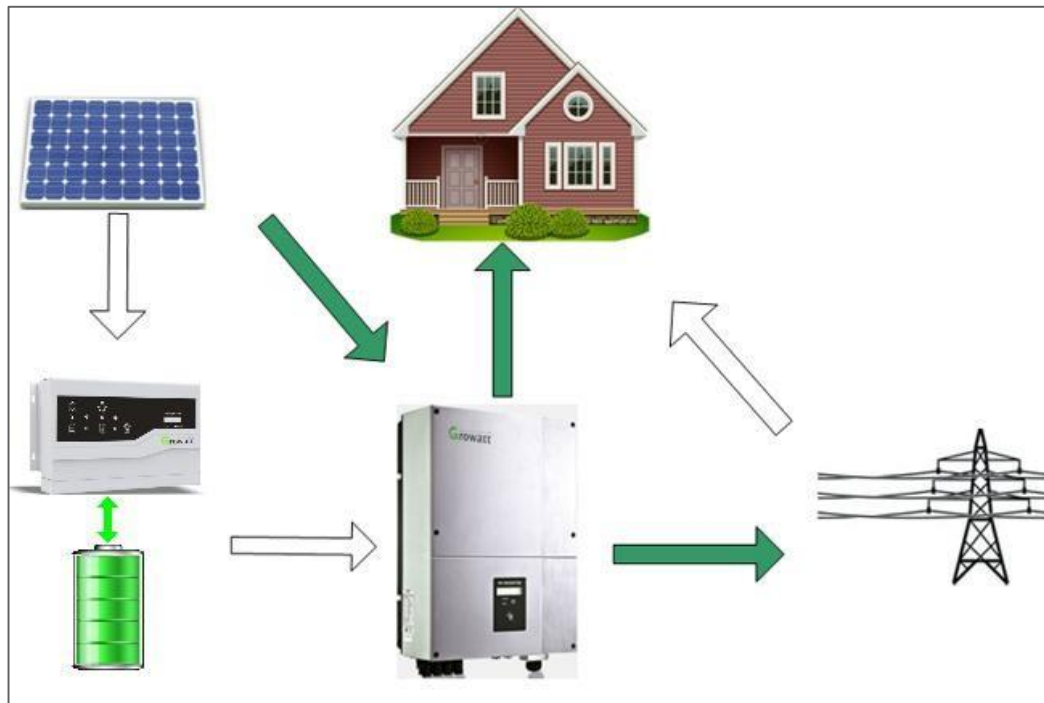
Mode 3

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



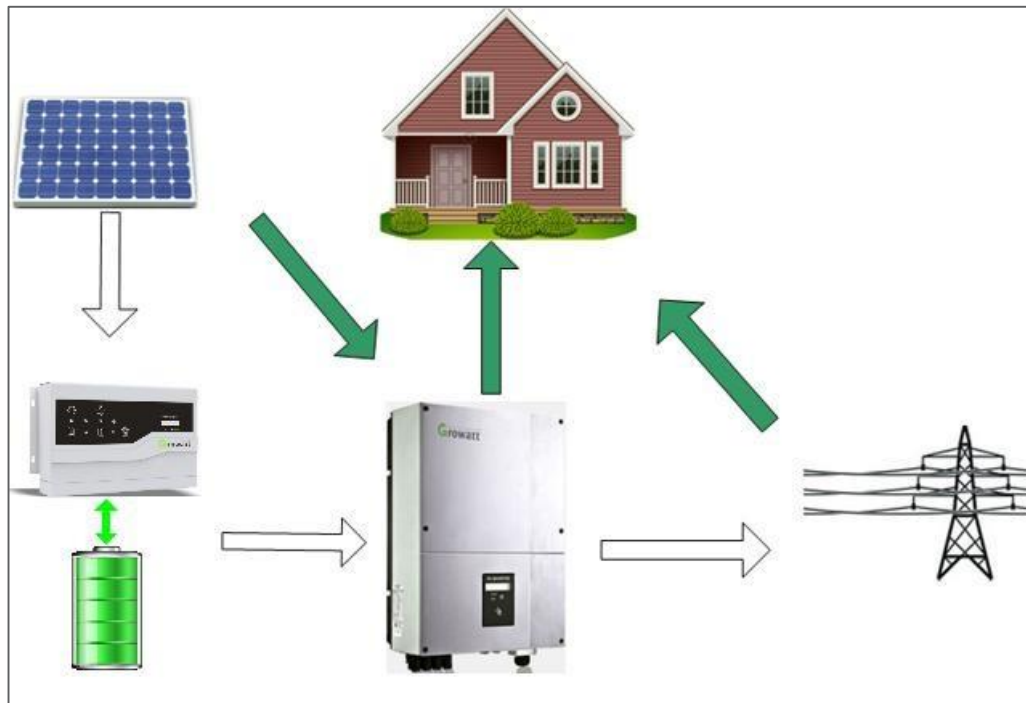
Mode 4

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



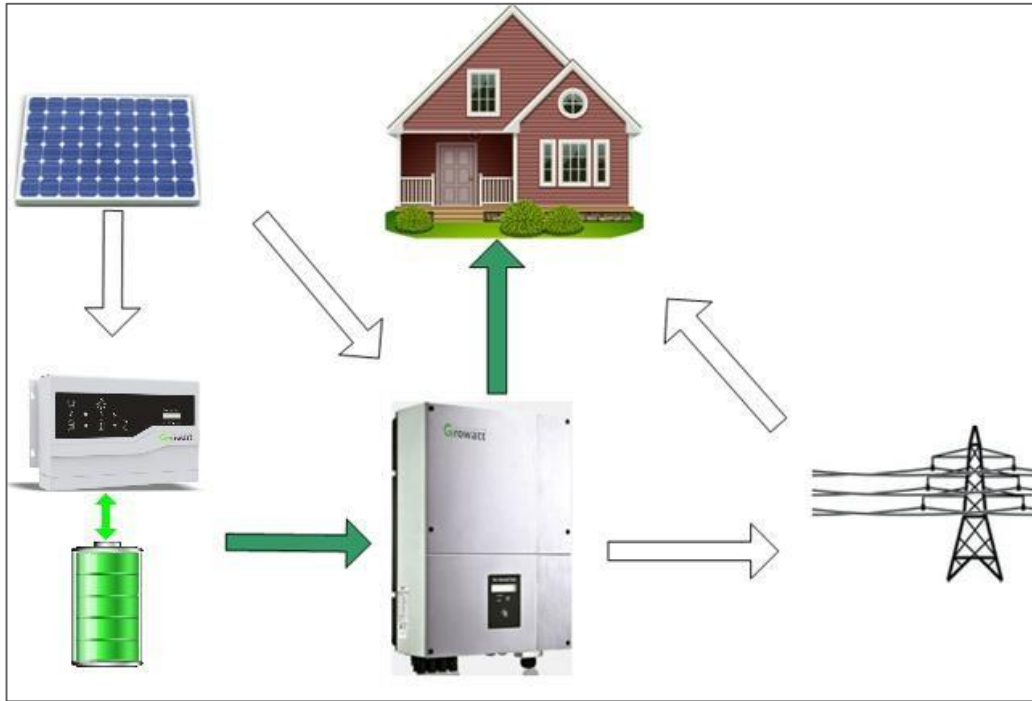
Mode 5

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



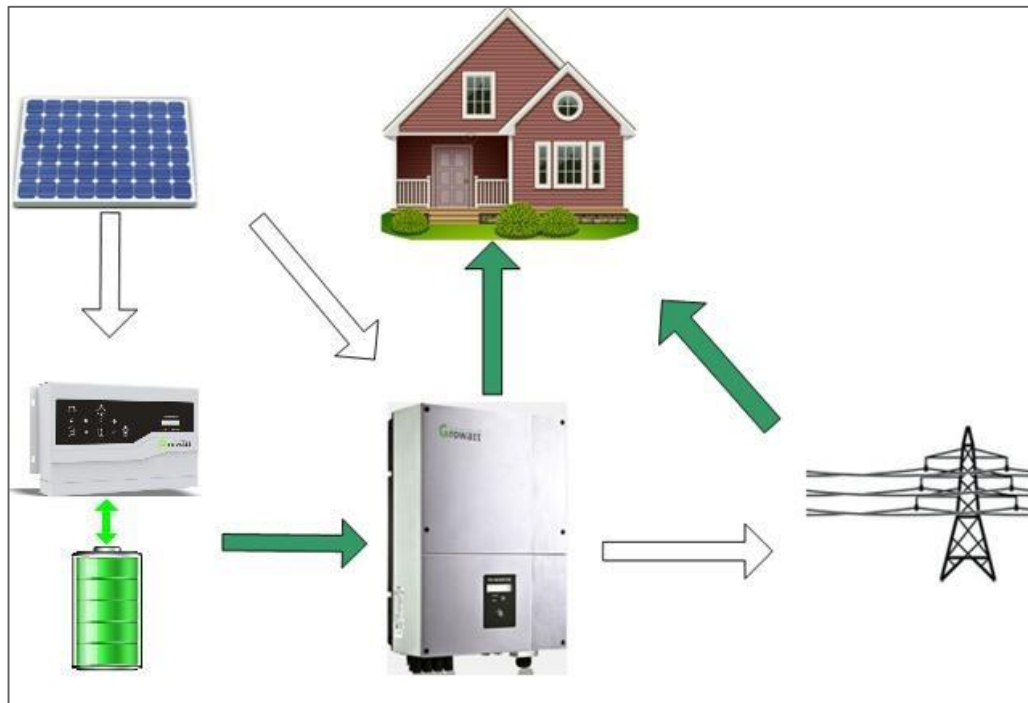
Mode 6

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



Mode 7

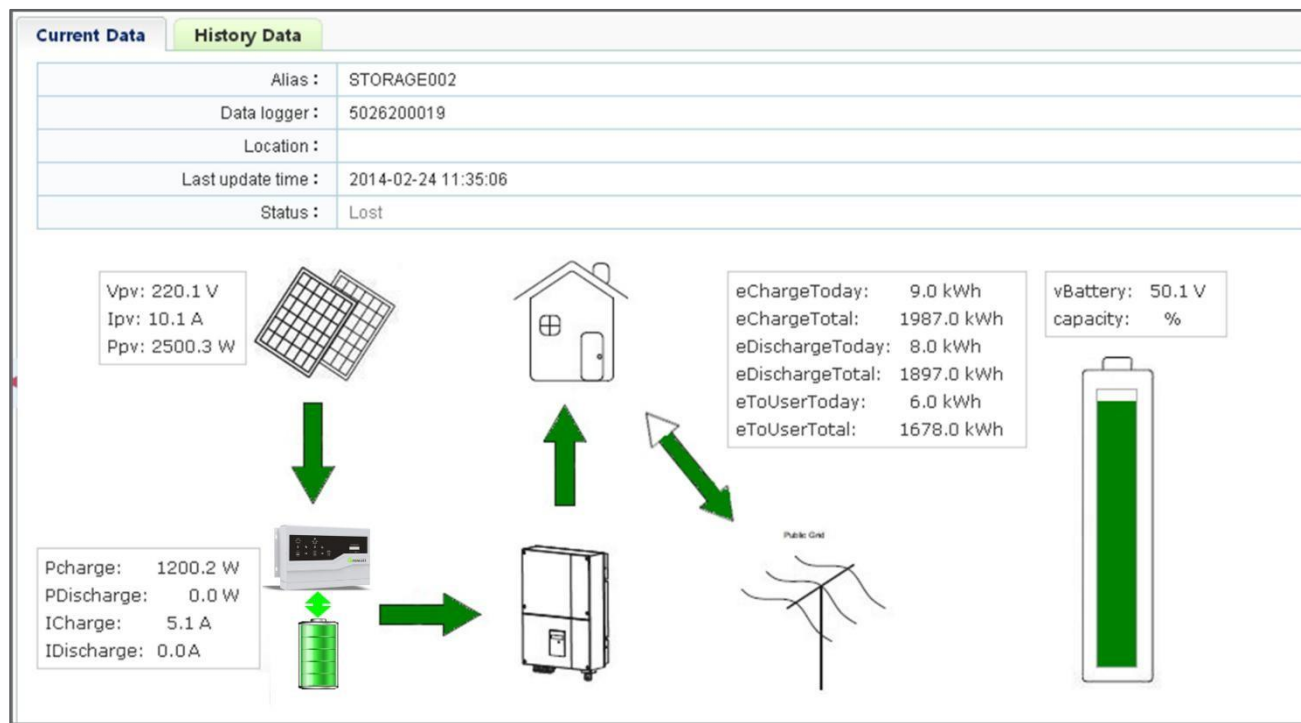
- In the evening
- The panels are no longer generating
- Property demand is supplied by the batteries



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