



3-phase Hybrid



3-phase AC-coupled

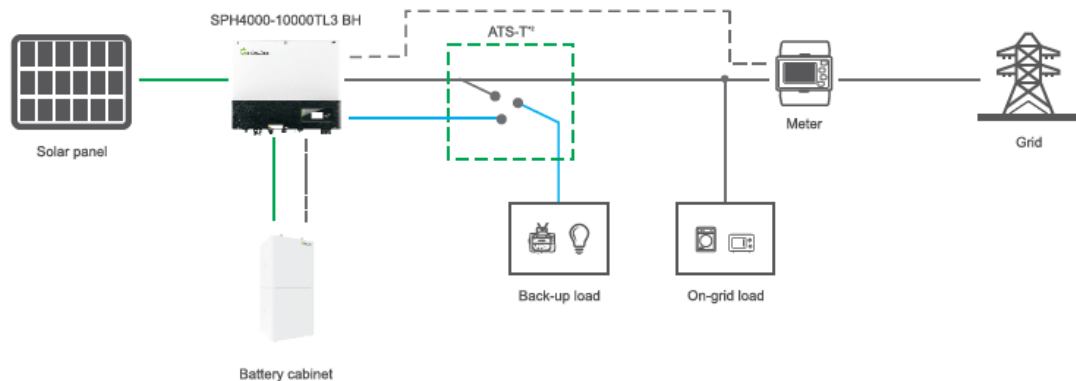
Growatt
powering tomorrow

3-phase Storage Solution

Hybrid solution

Perfect solution for new installation storage system

Maximize your solar self-consumption, reduce your electricity bills



What Growatt can offer:

SPH4000-10000TL3 BH

Meter (Standard)

ATS-T

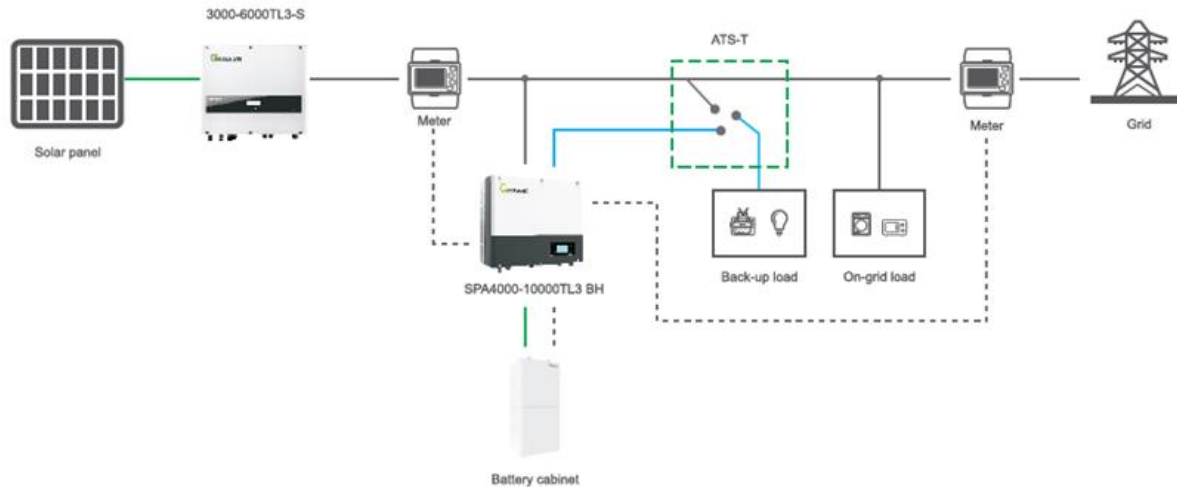
Datalogger

ShineSever/ShinePhone

AC coupled solution

Cost-effective solution for updating existing solar system to storage system
Helps you to increase self-consumption and gain energy independence

What Growatt can offer:



SPA4000-10000TL3 BH

Meters

Datalogger

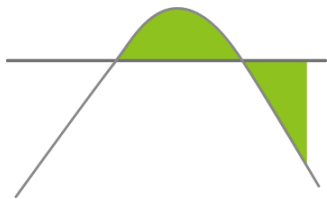
APP

Note: meters metering
import and output power to
grid (Standard) Meter for
PV production (Optional)

Типові сценарії застосування

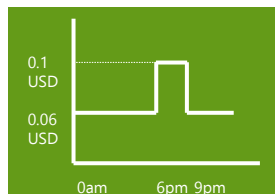
Максимізуйте самоспоживання

Краще максимізувати власне споживання акумулятором, коли ви продаєте електроенергію дешевше, ніж купуєте її



Використовуйте багатоетапну ціну електроенергії

Заряджайте акумулятор за недооціненою ціною, щоб зберігати електроенергію та використовуйте її за піковою ціною, щоб зменшити рахунок електроенергії



Нульовий експорт

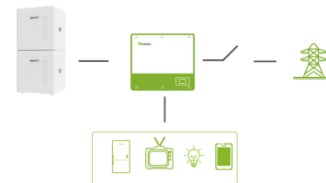
Контролюйте вихідну потужність сонячної системи, щоб уникнути подачі енергії назад до мережі



Note: only for hybrid inverter

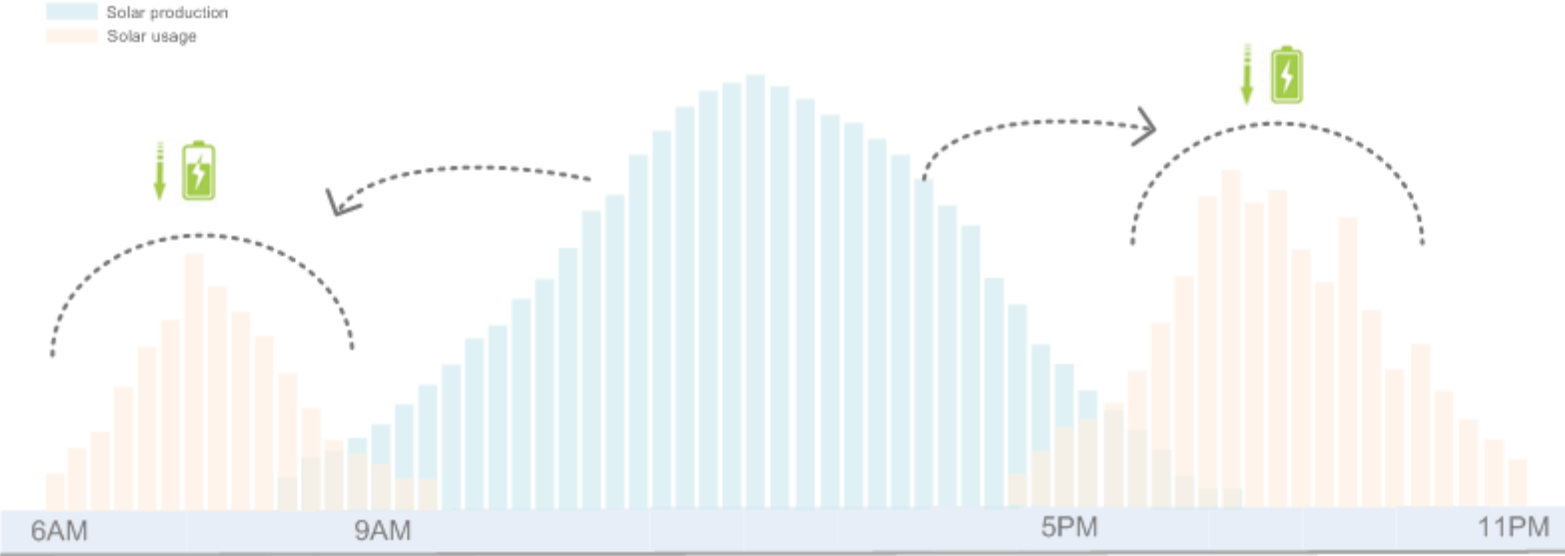
Аварійне резервне живлення

Розрядження, коли сітка замикається, працює як резервна потужність



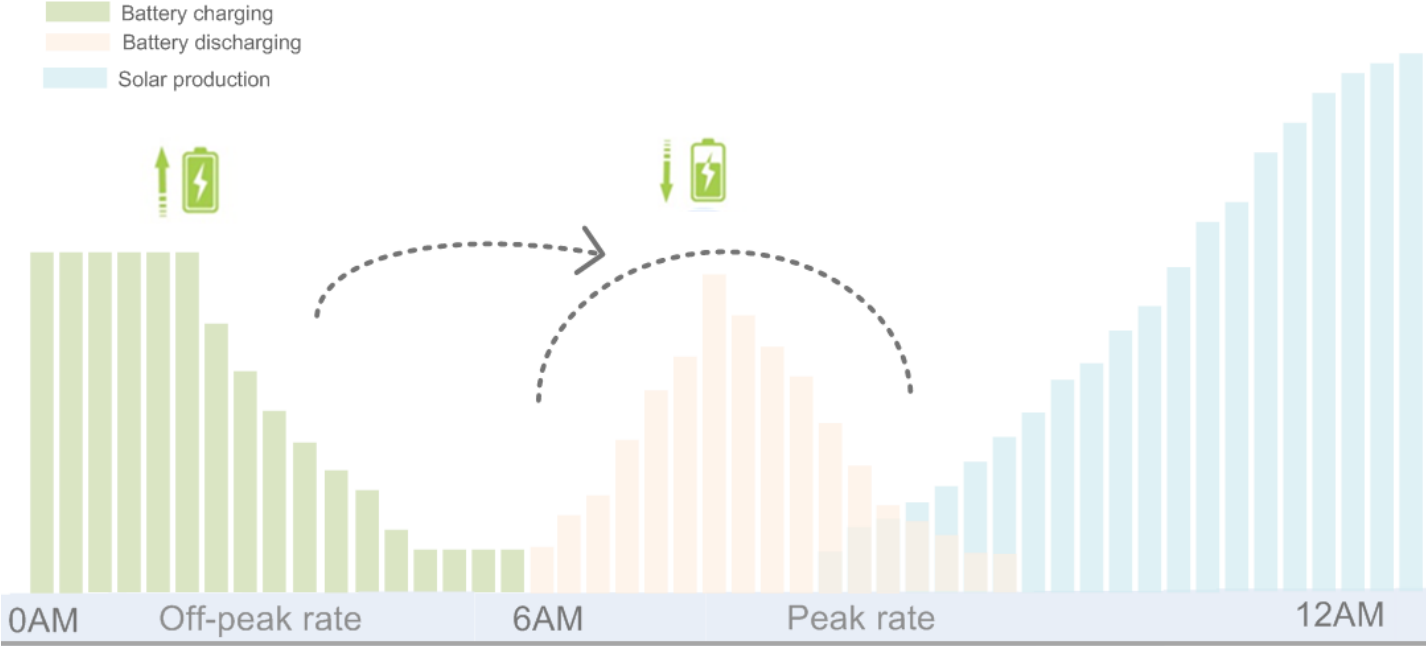
Schedulable the system how you want it working

Storing solar power throughout the day, and use it at night, increase solar system self-consumption.



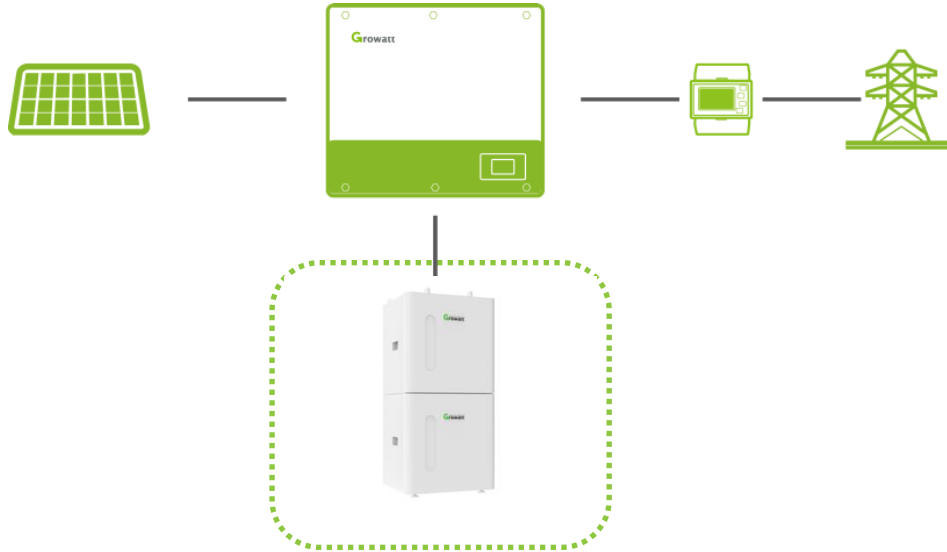
Schedulable the system how you want it working

Storing energy when it is cheap and running your home with battery when rates go up.



Storage ready solution

You decide whether to connect the battery at the time installation or retrofit it later
Use it as a standard Grid-tie PV inverter, add battery whenever you need



More choice for battery size

Enjoy more energy self-sufficiency with leading high voltage batteries
Flexible capacity combine with module batteries. range 9.6kWh to 24kWh



BMS Controller

SC0500A-100S 4-7 batteries

SC 1000-100S 8-10 batteries



Battery Model: H48050



Battery Cabinet

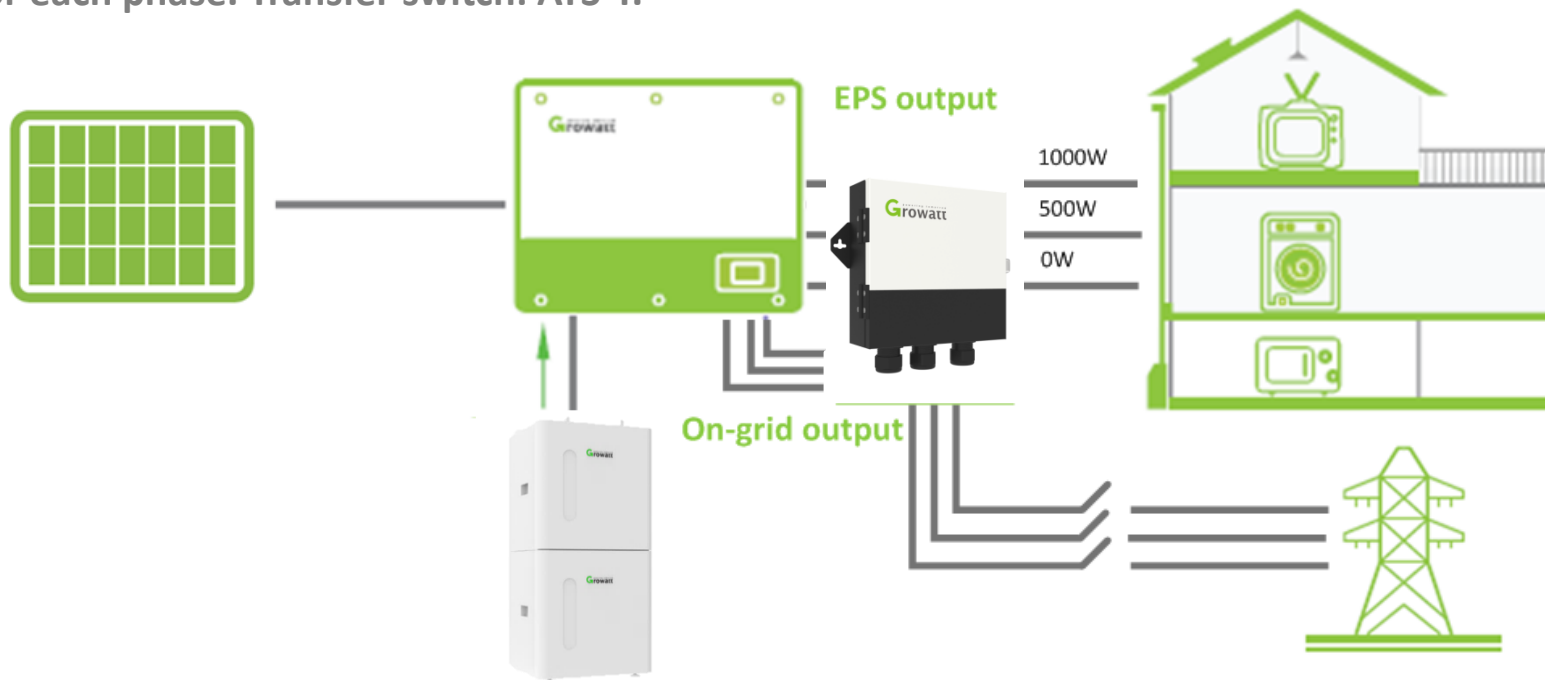
2 Cabinets: BMS+ 4-7 batteries

3 Cabinets: BMS+ 8-10 batteries

Back-up function

Reliable & Safe

Work as back-up when blackout, 3 phase can be unbalance, max. output power is $P_n/3$ for each phase. Transfer switch: ATS-T.



IP20 & Fan cooling

Problem : Dust come inside because of static and fan, product failure rate increase, lifetime will reduce. Noise > 50dB



IP65 & Natural cooling

Solution: Waterproof and dustproof, better lifetime guarantee, less maintenance. Indoor and outdoor installation, Noise<35dB.



Lighting Protection

Type II SPD on DC and AC side for lighting protection



Battery Management

Smart battery management, ensure battery safety and lifetime, never over discharge.



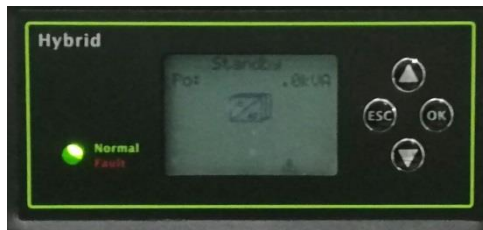
Easy operation

Convenient



Battery input

EPS output



LCD + Buttons

Easy to read and setting
via LCD + buttons



Local USB

Easy way for local FW
update with a standard USB
disk.

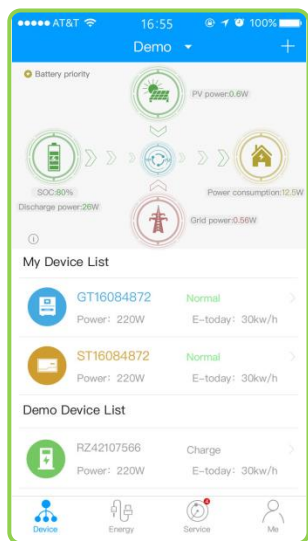
Showing real time data of your storage system

Convenient

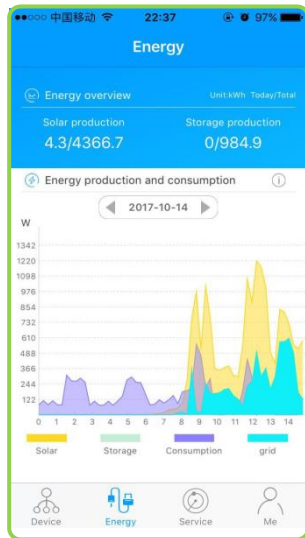


Keep an eye on everything at all time via APP

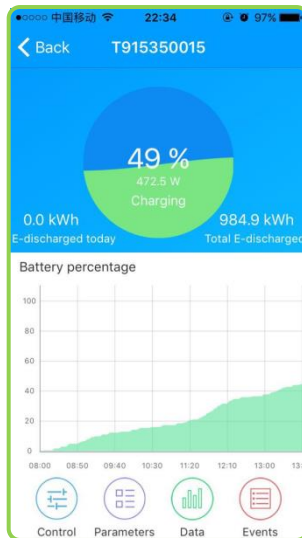
Convenient



System state



Power flow



Battery state

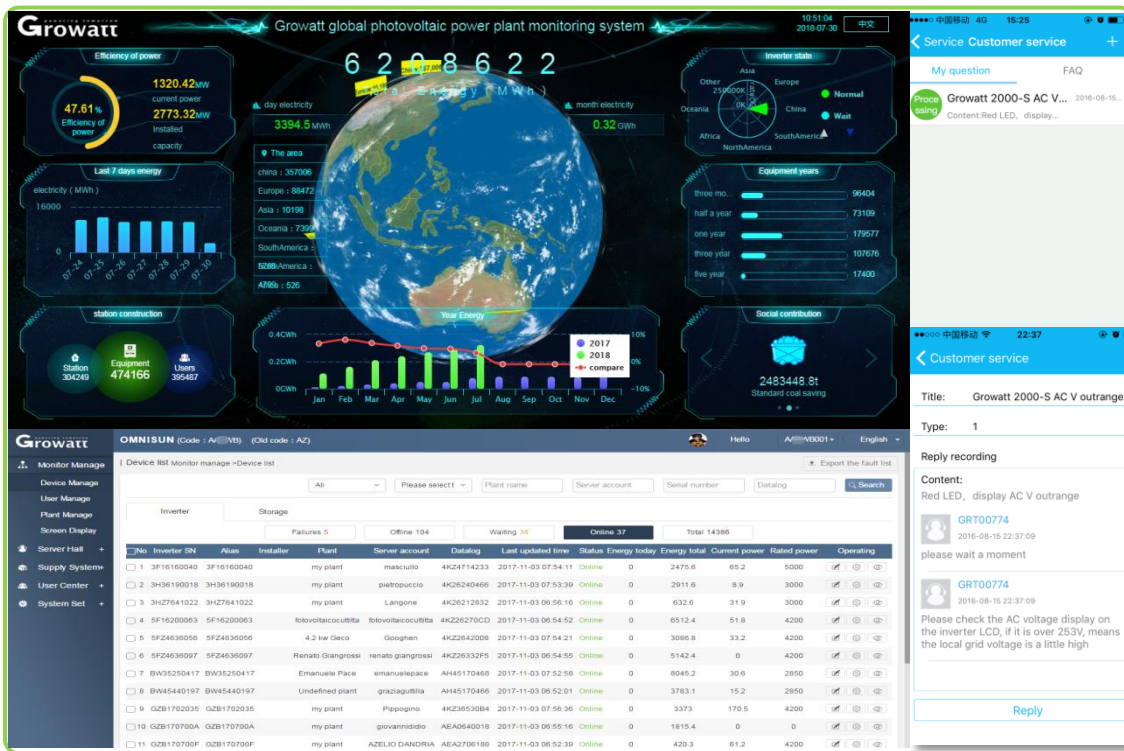


Energy statistics

Real time data upload.
System state at a glance.
Lost data continual transfer after recover.

Unique Online Smart Service system

Reliable & Safe



OSS system

Mobile service platform,
real-time online Q&A

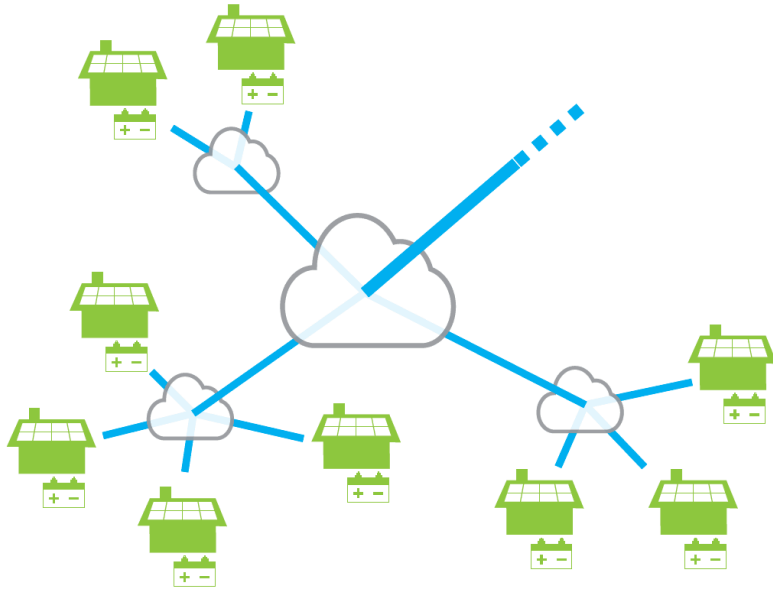
OSS service system also open
to professional distributors and
installers for service

Remote FW updating and
parameter setting, no need
site travelling, saving service
cost and time

Smart Grid Ready

Growatt battery inverter are ready to work with smart grid

Grid operators can access Growatt storage system remotely and control them accordingly



Benefits

Homeowner

Self-sufficiency and benefit of sharing energy

Grid operator

Grid stability enhanced by distributed energy producers



THANK YOU