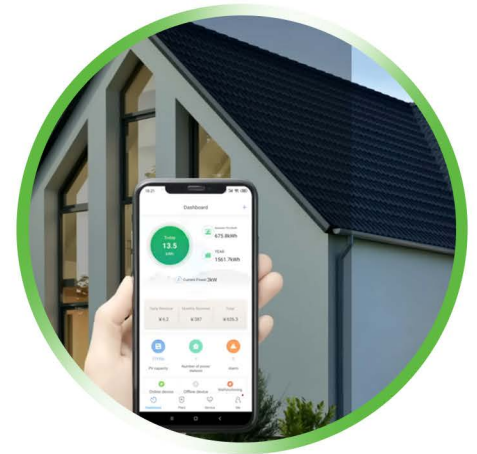


# powering tomorrow Growatt



# Off-Grid Solutions

Growatt offers a range of products that can enable users to generate and store electricity independently of the grid, providing off-grid solutions. These products include solar panels, inverters, and batteries, which utilize renewable energy sources like the sun to generate electricity. By storing excess energy in batteries, users can use it when the sun is not shining.

One of the main advantages of Growatt's off-grid solutions is their flexibility and customization options. Users can choose from a range of products with various power outputs and capacities, tailoring their system to meet their energy requirements.

Additionally, Growatt's off-grid solutions are designed to be user-friendly, making them easy to install and operate. The products feature intuitive controls and interfaces, ensuring that anyone can utilize them with ease.

Overall, Growatt is a reputable provider of high-quality energy storage solutions and solar inverters. Their off-grid solutions offer numerous benefits and can help users reduce their reliance on grid electricity or live entirely off the grid. Whether for residential, commercial, or industrial applications, Growatt's range of off-grid products can cater to diverse energy needs.





# Off-Grid Energy Storage Solutions

Powerful  
Monitoring  
Platform



Shine  
Server





## OFF-GRID STORAGE SOLUTION

Even more reliable electricity supply



High Yields



Scalable and Flexible



Smart and Reliable

### Supports multiple parallel operation modes

- Up to 6 units in parallel for capacity extension
- Parallel operation to form the split phase system or three phase system
- Support three phase unbalanced power for the output

### Multiple input power sources available

- Support multiple power sources, such as PV, battery, diesel generator and utility
- Compatible with Lithium, Lead-acid and GEL batteries

Off grid inverter with **Built in MPPT charger controller**

PV Modules



Battery



Utility



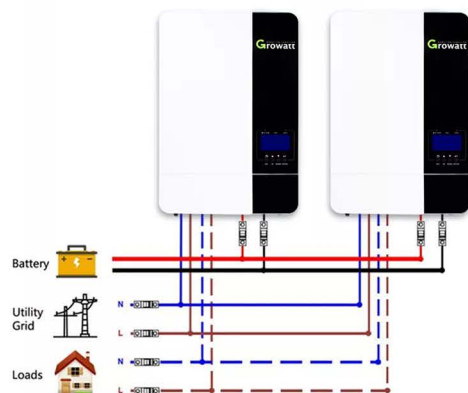
Generator



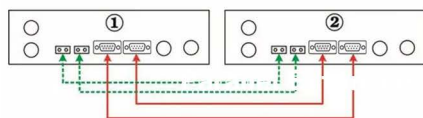
AC Load



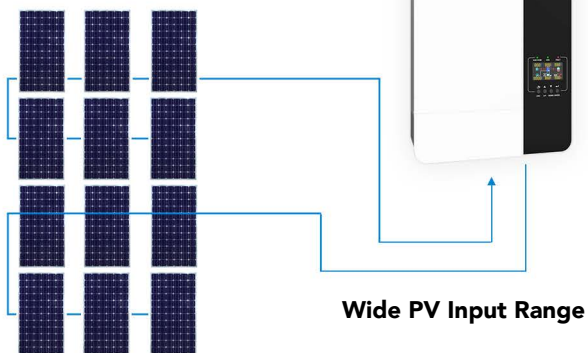




Communication Connection



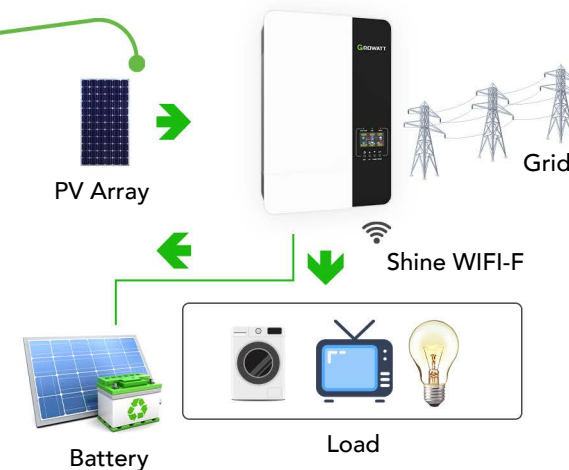
Parallel Extension



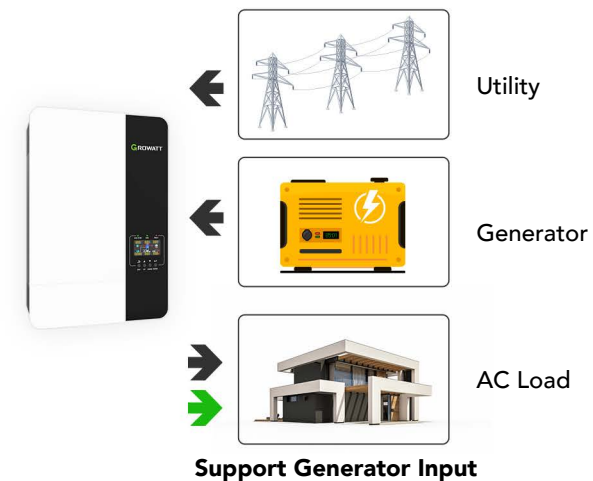
Wide PV Input Range



## WIFI/GPRS Monitoring and Smart Control



Sub Function to Support Solar and Utility



Support Generator Input

# SPF 5000 ES

## Inverter

- Accepts both Solar and Grid Input Power
- Maximum PV input voltage up to 450VDC
- Integrated MPPT charge controller.
- Equalization charging function.
- Work with battery or without battery.

### SPECIFICATIONS

**Battery**  
48VDC Lithium/Lead-acid

**Rated Power**  
5000VA / 5000W

**AC Voltage Regulation**  
230VAC  $\pm$  5% @ 50/60Hz

**Wave Form**  
Pure Sine Wave

**Maximum PV Array Power (Solar)**  
6000W

**MPPT Range Operating Voltage (Solar)**  
120VDC ~ 430VDC

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**Inverter**



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## SPF 6000 ES PLUS

### Inverter

- Plug-and-Play terminal for PV port
- Dual MPP trackers
- Maximum PV input voltage up to 500VDC
- Configurable grid or solar input priority
- Parallel for scalability
- Dust-proof filter for harsh environment
- Two AC input terminals with integrated transfer switch

### SPECIFICATIONS

#### Battery

48VDC Lithium/Lead-acid

#### Rated Power

6000VA / 6000W

#### AC Voltage Regulation

230VAC  $\pm$  5% @ 50/60Hz

#### Wave Form

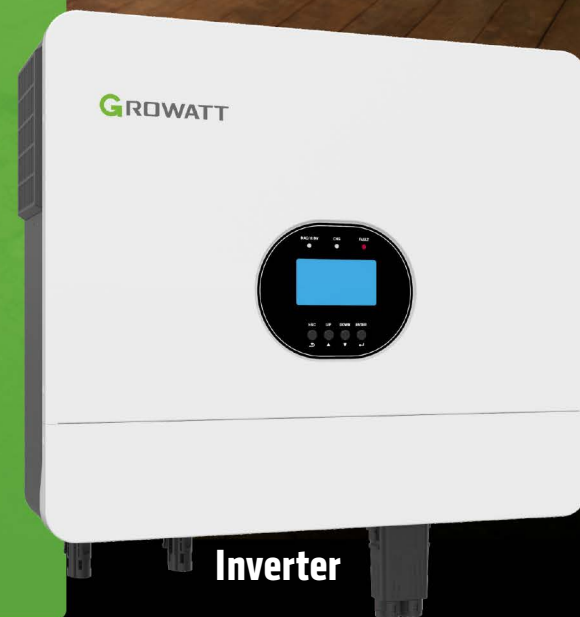
Pure Sine Wave

#### Maximum PV Array Power (Solar)

8000W

#### MPPT Range Operating Voltage (Solar)

120VDC ~ 450VDC



**Inverter**

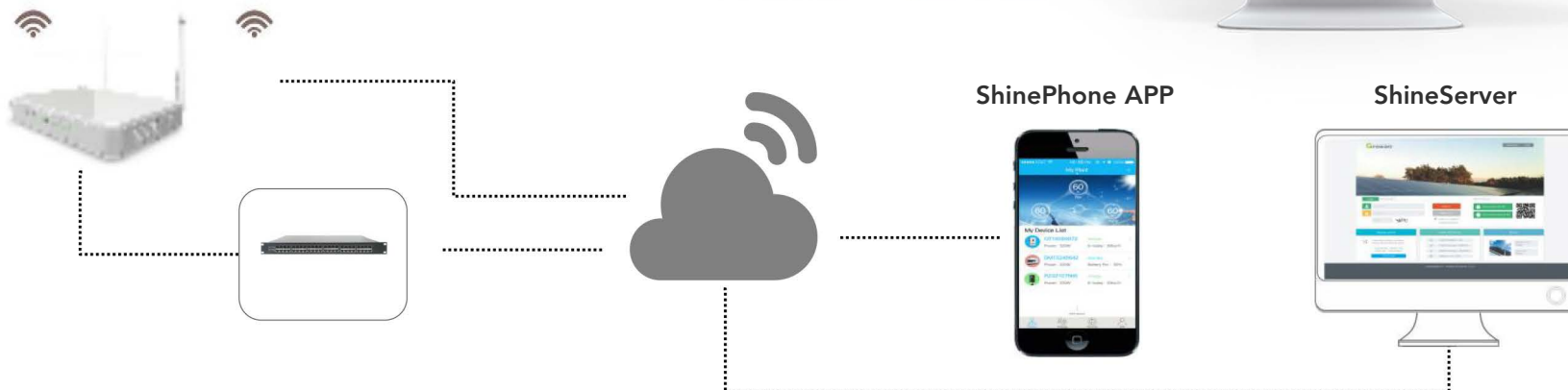


## Smart Management **SPF 6000 Plus**

Remote monitoring,  
Support remote FW upgrade



**WIFI, GPRS communication port  
for remote monitoring**



P O W E R

- I N G

T O M O

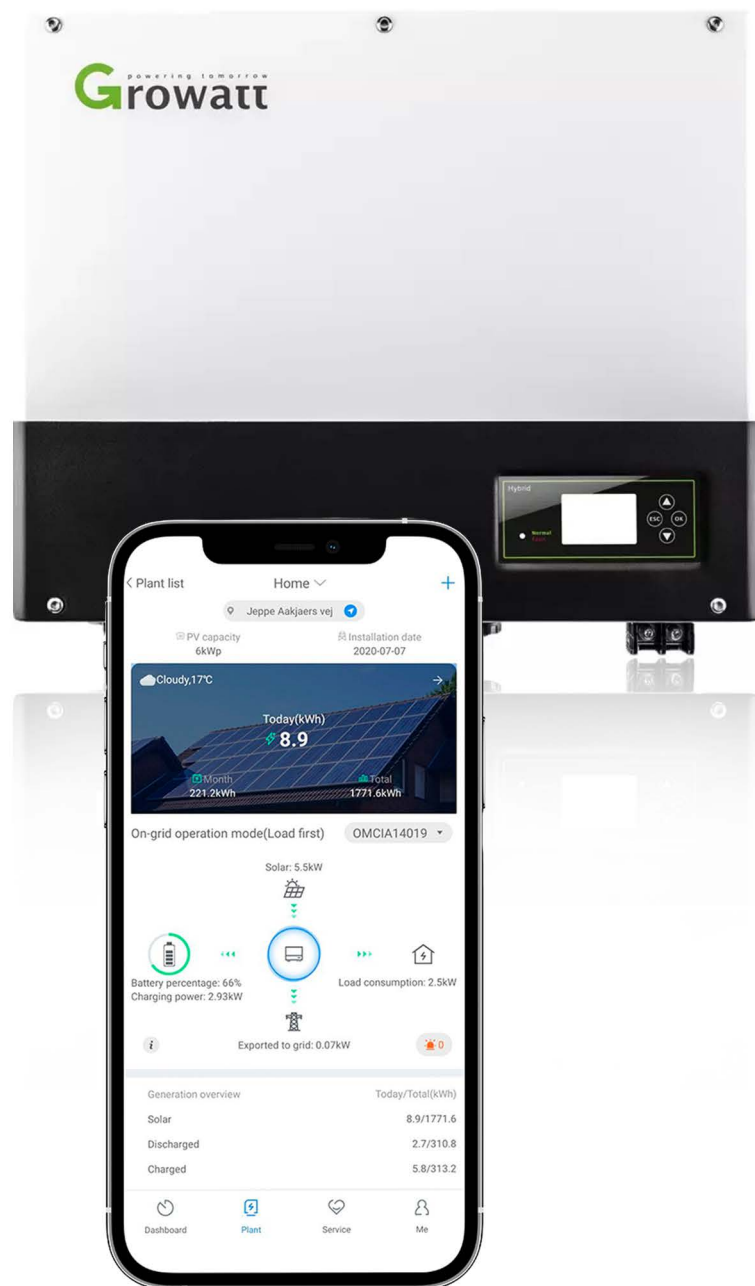
R R O W

## SPH 8000~10000 3-Phase Hybrid Inverter

- 100% Three-phase imbalance output
- Smart phase-level power export limitation
- Wide battery voltage 100-550V
- UPS Function, 10ms transition
- Scalable system configuration
- VPP interface ready
- DC/AC type II SPD
- 1.5 DC/AC ratio







## Three-Phase Hybrid Inverters

### SPH 8000TL3 BH-UP

### SPH 10000TL3 BH-UP

#### INPUT DATA (PV)

##### Max. recommended PV power (for module STC)

1200W

1500W

##### Max. DC voltage

1200V

##### Start voltage

120V

##### MPP voltage range

120V-1000V/600V

#### OUTPUT DATA (AC)

##### AC Nominal Power

8000W

10000W

##### Max. AC apparent power

8000VA

10000VA

##### Nominal AC voltage (range\*)

230V/400V (310~476V)

##### AC grid frequency (range)

50Hz/60Hz (45Hz-55Hz/55Hz-65Hz)

#### BATTERY DATA (DC)

##### Max charging and discharging current

25A

P O W E R

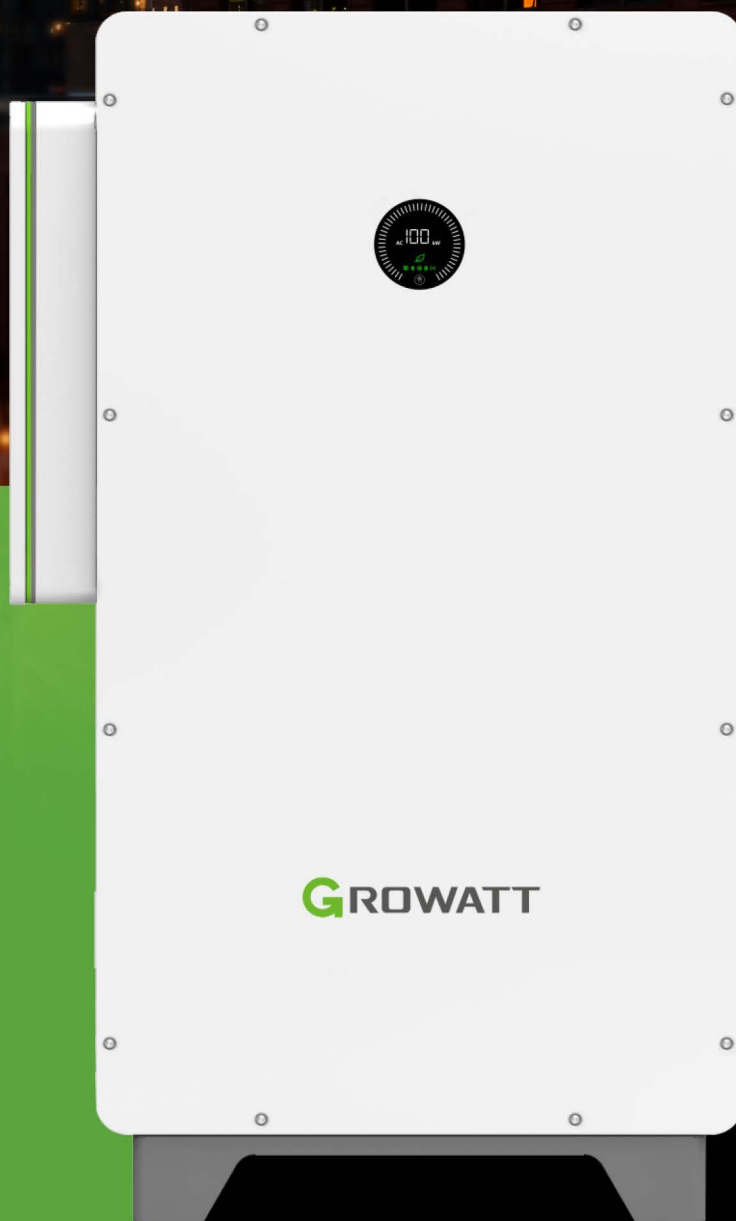
- I N G

T O M O

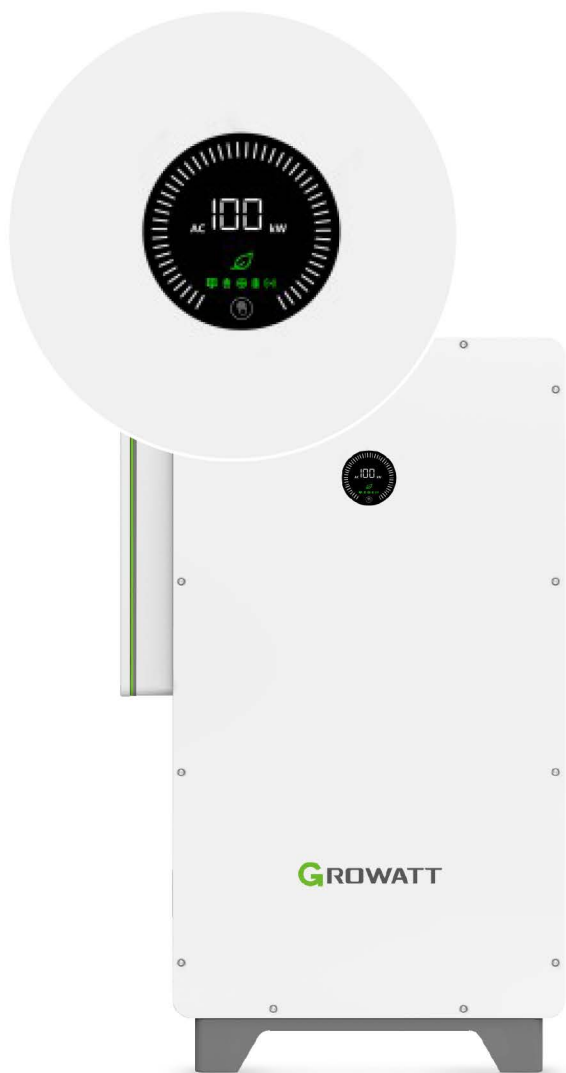
R R O W

## WIT 50~100 Commercial Hybrid Inverter

- Scalable system configuration, extended to 300kW
- Supports EPS function and black start
- 100% unbalanced load when backup
- 110% continuous AC overloading capacity
- Support remote control of DG
- Multiple MPPTs input
- Grid-support functions







## Commercial Hybrid Inverters

**WIT 50KTL3-H**

**WIT 63KTL3-H**

**WIT 75KTL3-H**

**WIT 100KTL3-H**

### INPUT DATA (PV)

#### Max. recommended PV power (for module STC)

109200W

124800W

156000W

156000W

#### Start Voltage

195V

#### Nominal Voltage

550V

#### Max. Input Voltage

1100V

### OUTPUT DATA (AC)

#### AC Nominal Power

50000W

63000W

75000W

100000W

#### Max. AC Apparent Power

55KVA

69.3KVA

82.5KVA

110KVA

#### Nominal AC Voltage

380/400/415V

### BATTERY DATA (DC)

#### Continuous charging and discharging power

55KW

71.63KW

85.1KW

113.5KW

#### Battery Voltage Range

600-1000V (for 3P3W) / 680-1000V (for 3P4W)

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