

AURA 5000 Parallel Function Introduction

The Growatt AURA 5000 is a 5kWh AC-coupled battery that supports parallel operation, allowing users to increase both storage capacity and, in Panel Installation, on-grid power for greater flexibility. This white paper provides a step-by-step guide on setting up parallel functionality, including wiring, network configuration, and operating modes.

The Growatt logo, featuring a green stylized 'G' followed by the word 'ROWATT' in a dark grey, sans-serif font.

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■ Parallel Function Introduction

The AURA 5000 supports parallel connection of up to four units. In Plug-in Installation, up to four units can be connected, achieving a total system capacity of 20kWh while the on-grid power remains unchanged. In Panel Installation, up to four units can also be connected, delivering a total system capacity of 20kWh with on-grid power scalable up to 10kW.

Note: When the EPS mode is enabled, the master unit and each slave unit discharge independently. That is, loads connected to the master unit's Versatile AC Port can only draw power from the master unit's battery, while loads connected to a slave unit's Versatile AC Port can only draw power from that slave unit's battery.

A communication cable (any standard Ethernet cable) must be prepared in advance.

■ 1. Wiring Method

1. Plug-in parallel installation

This installation method is suitable for quick plug-in installation by ordinary end users:

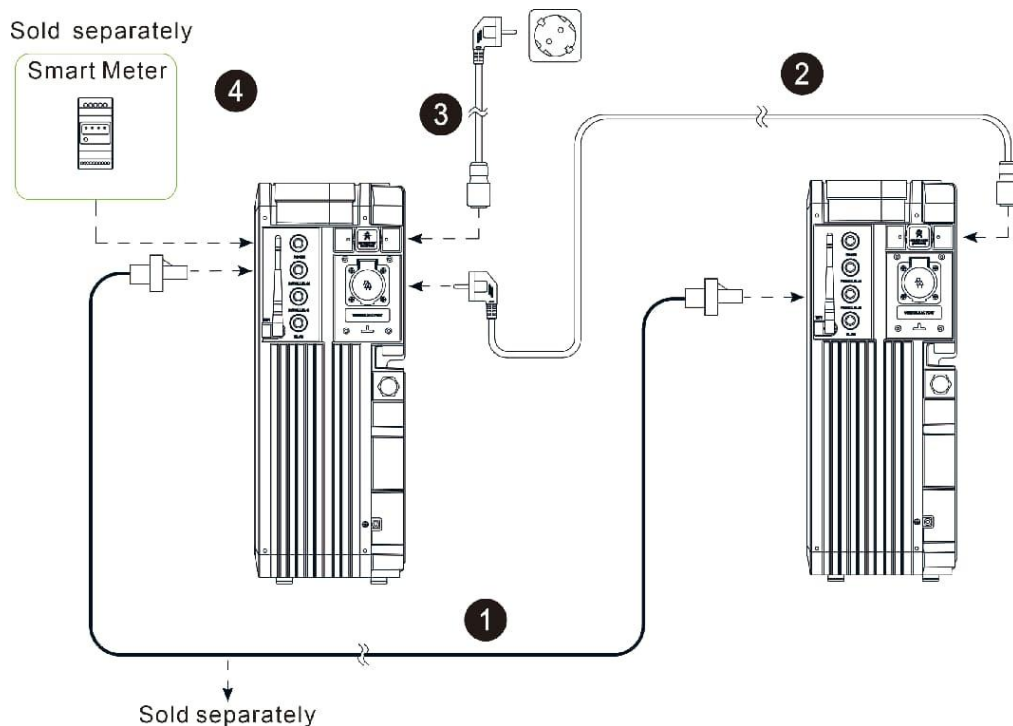
① Communication cable connection: A communication cable is required between every two devices. The cable connects from the master unit's Parallel-M Port to the slave unit's Parallel-S Port, and so on. The Parallel-S Port of the last slave unit is left unconnected.

② On-Grid AC Cable connection: The master unit connects to a wall socket via a plug-in for grid connection. Slave units are connected in a daisy chain, with each slave unit connecting to the master unit's Versatile AC Port, and so on. The Versatile AC Port of the last slave unit can be connected to a micro-inverter or EPS load.

Note:

① In this scenario, slave units must be connected to the grid sequentially through the master unit. All devices will complete grid connection approximately 6 minutes after initial installation.

② In this scenario, only capacity expansion is supported; On-grid power cannot be increased.



1.2 Panel Installation

This installation method is intended for installers integrating the AURA 5000 into a distribution cabinet:

① Communication cable connection: A communication cable is required between every two devices. The cable connects from the master unit's Parallel-M Port to the slave unit's Parallel-S Port, and so on. The Parallel-S Port of the last slave unit is left unconnected.

② On-Grid AC Cable connection: Each device must be connected individually to the distribution cabinet for grid connection. The Versatile AC Port of each device can be connected to a micro-inverter or EPS load.

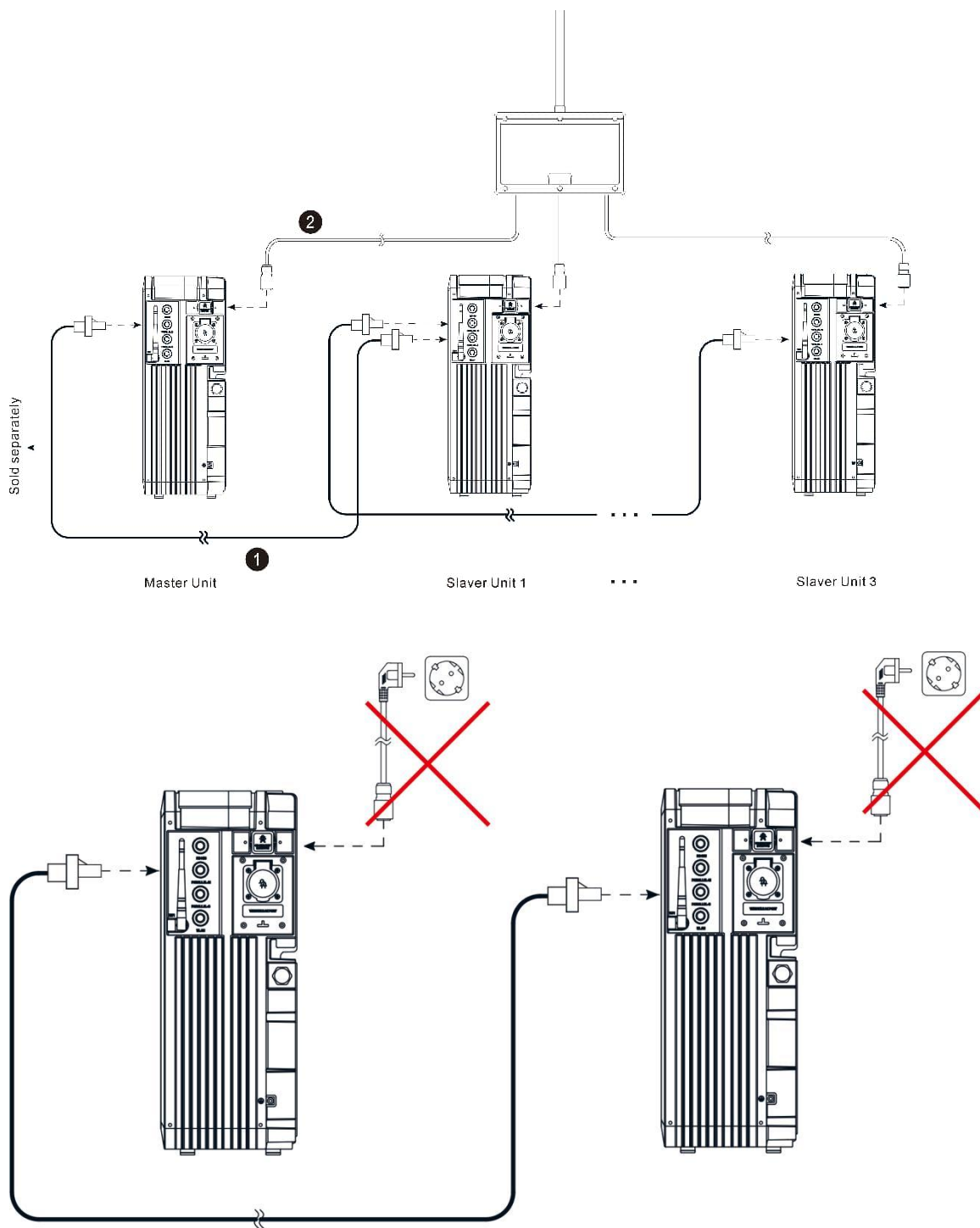
Note:

① In this scenario, both capacity expansion and On-grid power increase are supported.

Please refer to the 5. Panel Installation: Set 2500W On-grid Power on OSS section to

set a On-grid power of 2500W for each device.

②After setting 2500W, do not connect each device individually to wall sockets via Plug-in, as this may cause overload and burn the wiring.



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■ 2. Bluetooth Upgrade

2.1 Download the latest version of ShinePhone

Method 1: Scan the QR code

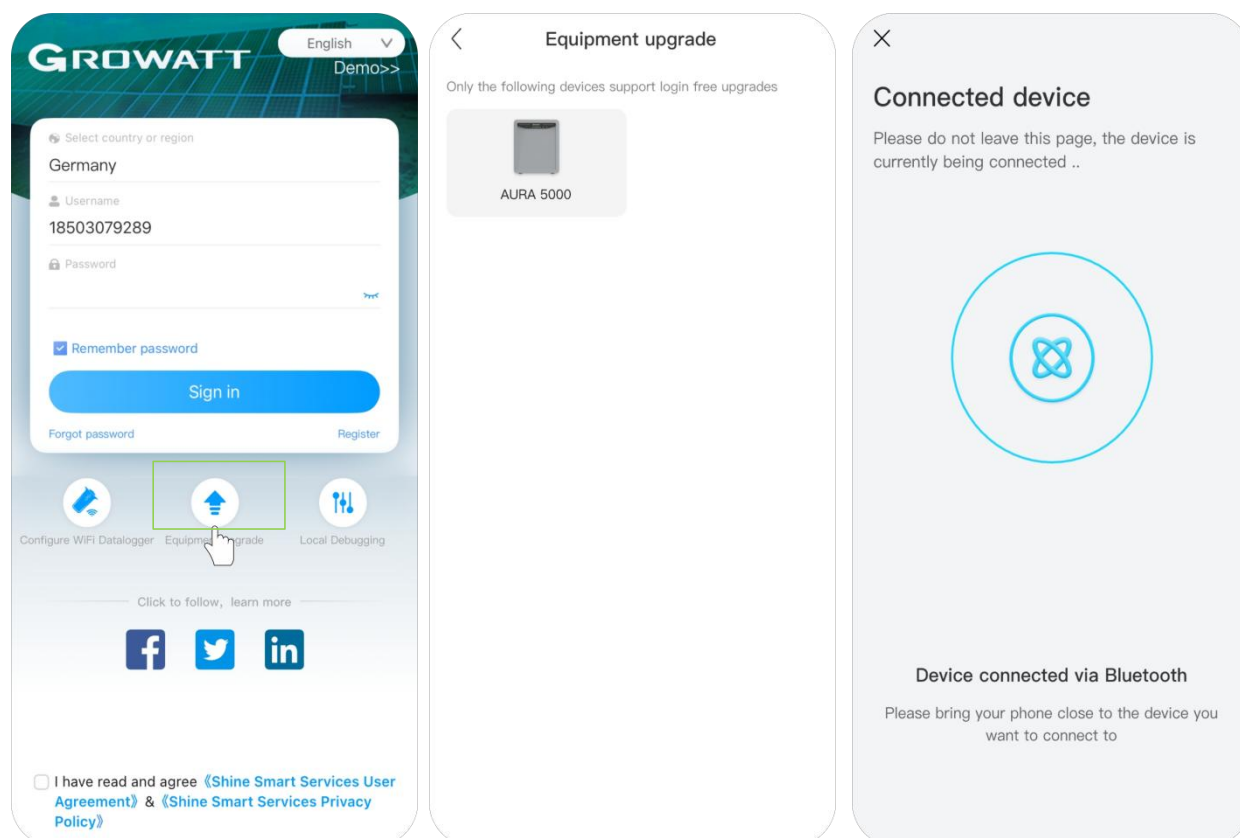
Method 2: Search for 'ShinePhone' on the Apple Store or Google Play



2.2 Update the master unit and slave units to the latest version via Bluetooth

Note: Both the master unit and slave units must be updated to the latest version:

07.00.08.05.9000.4027



■ 3. Connect the Master Unit to the Network

Please refer to the manual and the on-screen instructions in the APP to configure the master unit for network connection.

Note: Only the master unit needs to be configured for network connection; slave units do not require network configuration.

■ 4. Connect the Master Unit to the Smart Meter

AURA 5000 Compatible Smart Meters

- Third-party Wi-Fi meters (Require the meter and AURA 5000 to be connected to the same local area network):

Shelly 3EM, Shelly Pro 3EM, Shelly Pro 3EM-3CT63, Shelly Pro EM-50, Shelly Pro 1PM, everHome EcoTracker, Chargee Sparky P1 meter

- Growatt LoRa meters (RF communication, no network configuration required for the meter):

SEM5-1 Smart Meter, SM-WLS01 Infrared Meter Reading Head

The association process is the same for all smart meters. Simply tap the "Associated Meter" setting and follow the in-app instructions to complete the pairing.

Associated Meter Please Select >

Brand

Chargee

Model

Sparky P1 meter



☒ Your device and Sparky P1 meter are already under the same local network



Sparky P1 meter
SN:DC0675B6F7EC

Associated plug >

Associated Meter [Sparky P1 meter >](#)

Function

Operation Mode >

Country / Region [Germany >](#)

Battery Management [10~100% >](#)

System Default Output Power ⑦ >

Temperature Unit [°C >](#)

Select Currency >

Expot Limitation ⑦ >

Power+ Function ☐

AC couple enable ⑦ ☐

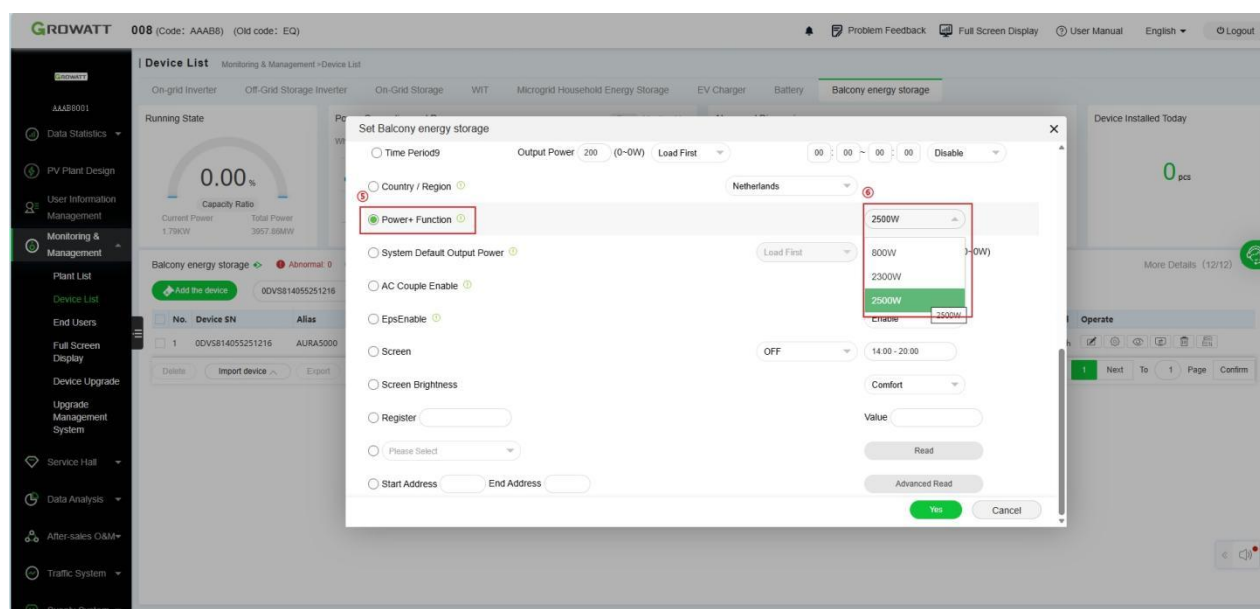
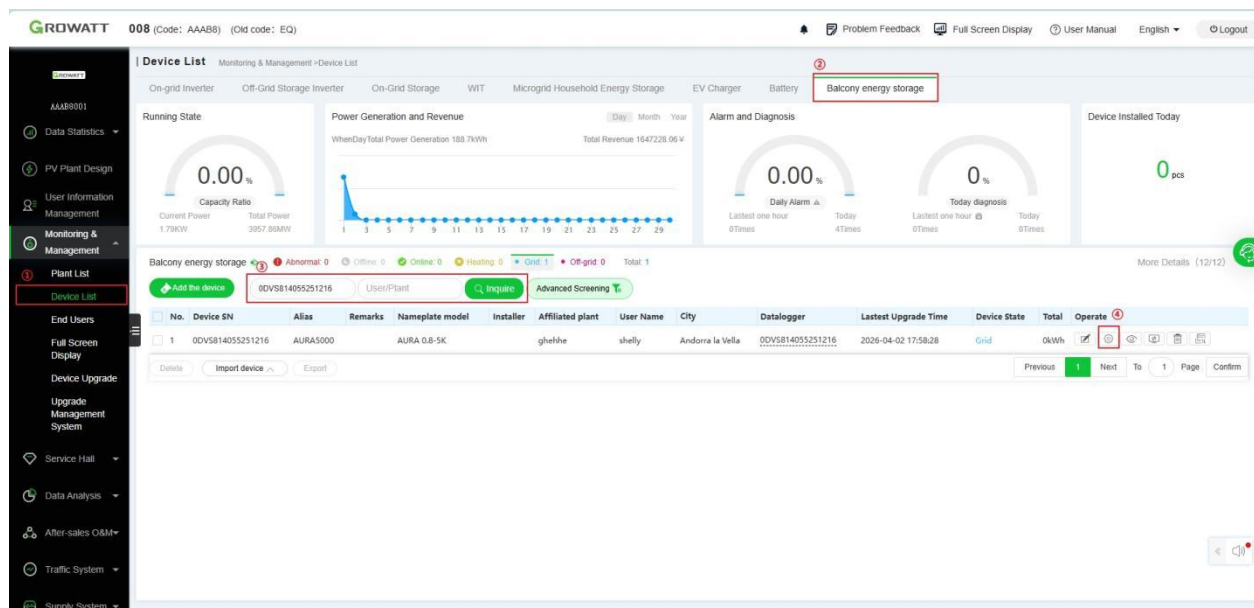
■ 5. Panel Installation: Set 2500W On-grid Power on OSS

5.1 Plug-in Installation: Cannot set 2500W On-grid AC Power via OSS

5.1 Panel Installation: Set 2500W On-grid AC Power on OSS

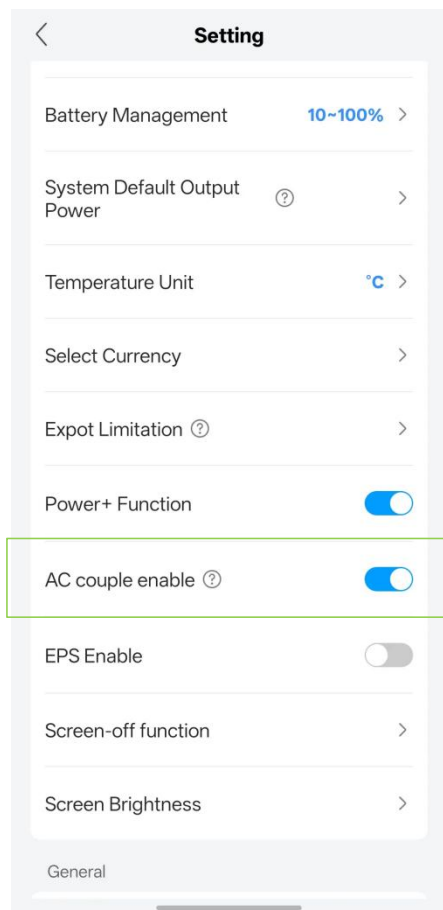
In the parallel scenario for Panel Installation, the 2500W On-grid power must be set via OSS. After setting, the maximum on-grid power of the master unit is 2500W. For each additional slave unit, the system's maximum on-grid power increases by 2500W.

Note: If set incorrectly, a wiring error will be reported. If you see a wiring error notification, rewire according to the description above.



6. Enable the AC-Coupled Function

If there are other on-grid inverters in the system and you wish to automatically charge the AURA 5000 using the excess energy generated by the inverters, please enable the AC-Coupled function.



7. Set the Operating Mode

The operating mode in a parallel configuration is consistent with that of the master unit. Only the capacity and On-grid power are increased. Users can select the operating mode themselves.

It is recommended to set the Smart Self-consumption Mode.