AURA 5000 Parallel Function Introduction

The Growatt AURA 5000 is a 5 kWh AC-coupled battery supporting up to four units in parallel (20 kWh). Daisy-Chain Connection expands storage capacity; Independent Grid Connection can also increase on-grid power, up to 10 kW with four units when Power+ is enabled. This guide covers wiring, firmware upgrades, network and meter setup, and operating modes.



1. Parallel Function Introduction

The AURA 5000 supports parallel operation of up to four units (20 kWh). Two wiring configurations are available: Daisy-Chain Connection, where only the master is directly connected to the grid and each slave connects through the preceding unit's Versatile AC Port; and Independent Grid Connection, where the master and every slave have separate On-grid AC connections. Both expand storage capacity. Only Independent Grid Connection increases the maximum on-grid power in proportion to the number of grid-connected units (up to 10 kW with four units and Power+ enabled).

EPS note: Each unit supplies its own EPS loads independently; EPS output is not combined across units. In Daisy-Chain Connection, the master's and intermediate slaves' Versatile AC Ports are occupied by downstream units. Only the final slave's unused Versatile AC Port is available for a microinverter or EPS load (select one function).

Prepare a suitable parallel communication cable (standard Ethernet cable) for each link between adjacent units.

2. Wiring Methods

2.1 Daisy-Chain Connection

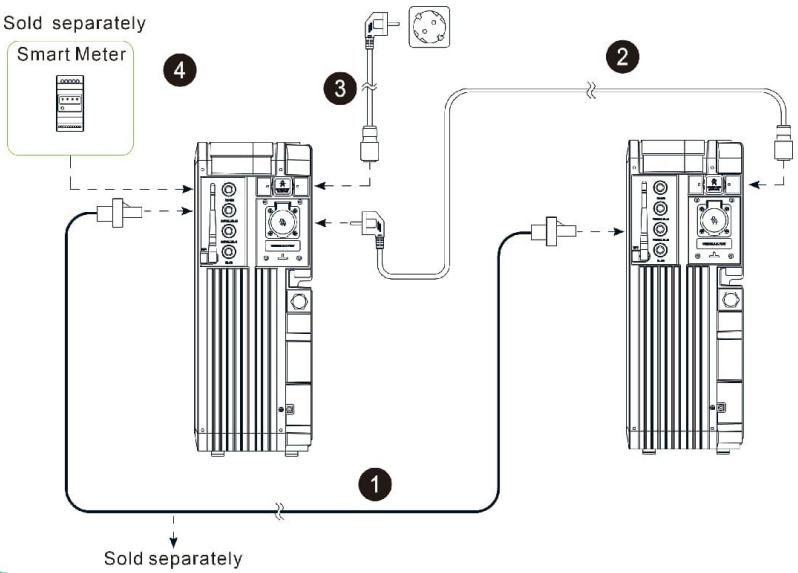
This configuration allows plug-in installation with only the master directly

connected to the grid.

① Parallel communication cable: Connect the master's Parallel-M Port to the first slave's Parallel-S Port. For additional units, connect each preceding slave's Parallel-M Port to the next slave's Parallel-S Port. Leave the final slave's Parallel-M Port unconnected.

② On-grid AC cables: Connect the master directly to a grid outlet. Connect the first slave's On-grid AC cable to the master's Versatile AC Port; connect each additional slave's On-grid AC cable to the preceding slave's Versatile AC Port. The final slave's Versatile AC Port can connect to either a microinverter or an EPS load, according to the selected function.

Note: Only the master has a direct grid connection; slaves connect sequentially through preceding units. Allow time for sequential grid connection after installation. The system's maximum on-grid power does not scale with the number of units, although the configured power limit may be adjusted as described in Section 6.



2.2 Independent Grid Connection

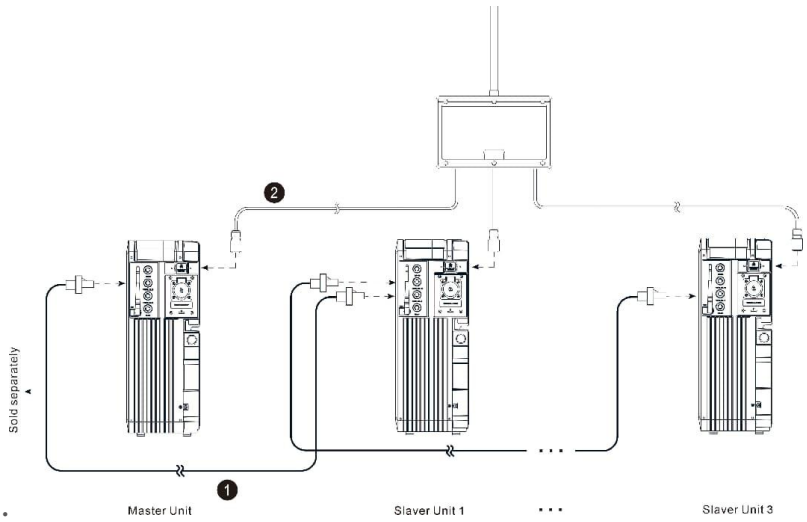
Each unit is directly connected to the grid using its own On-grid AC cable. Installation through a distribution board should be carried out by a qualified installer.

① Parallel communication cable: Connect master Parallel-M to the first slave's Parallel-S. For additional slaves, connect each preceding slave's Parallel-M to the next slave's Parallel-S. Leave the last slave's Parallel-M Port unused.

② On-grid AC cables: Connect the master and every slave individually to the grid through their respective On-grid AC cables. Each unit's Versatile AC Port can be used for either a microinverter or an EPS load (not both simultaneously).

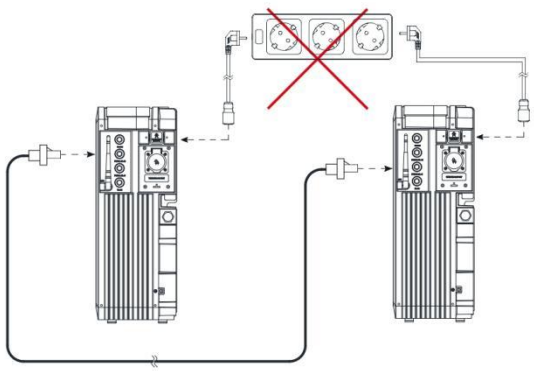
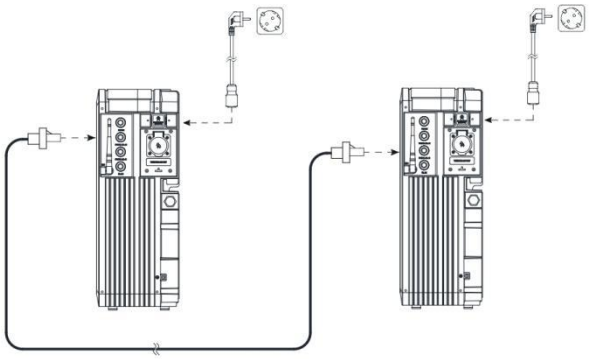
Note:

This configuration expands both storage capacity and maximum on-grid power. Available power depends on the number of directly grid-connected units and the settings in Section 6



Electrical Safety Warning

When using a three-phase socket, connect one unit per phase. However, connecting multiple units to a single-phase power strip is strictly prohibited. Their combined current may exceed the power strip or circuit rating, causing overheating or damage. Where permitted, units may be connected to separately rated outlets or suitable distribution-board circuits. For connections on separate phases, each outlet and circuit must meet local electrical requirements. The number of available phases does not, by itself, establish that a four-unit installation is permitted. Have a qualified electrician verify protection, wiring and circuit capacity.

Single power strip (not permitted)	Separate approved outlets
	

3. Bluetooth Firmware Upgrade

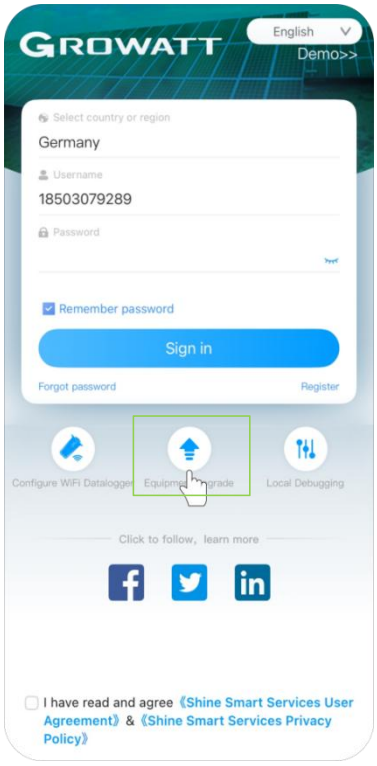
3.1 Download the latest version of ShinePhone

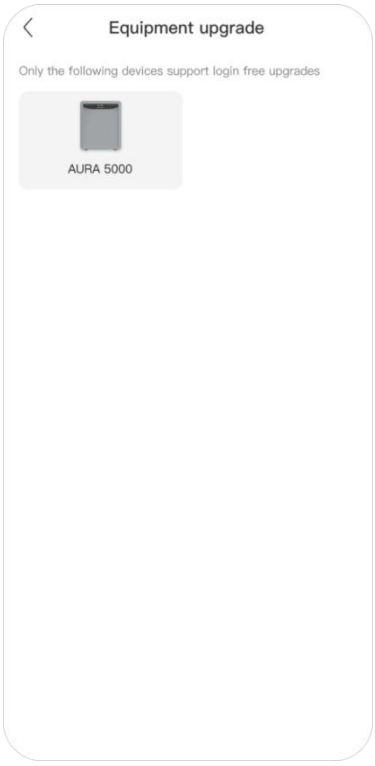
Method 1: Scan the QR code.

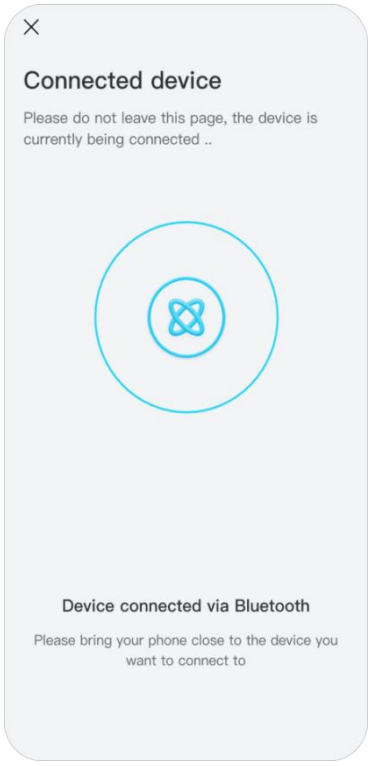
Method 2: Search for “ShinePhone” in the Apple App Store or Google Play.

3.2 Upgrade each unit via Bluetooth

Note: Upgrade the master first, followed by each slave. Both master and slave units must run compatible firmware (version 11.00.12.06.9000.4031 or a later compatible release). Do not interrupt the upgrade.







4. Connect the Master Unit to the Network

Follow the user manual and the on-screen instructions in the ShinePhone app to connect the master unit to the network.

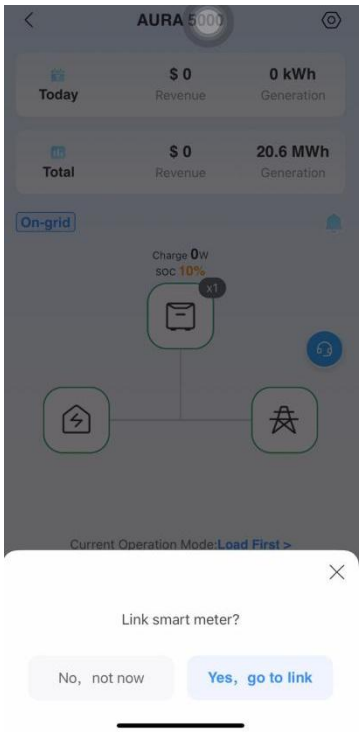
Note: Only the master unit requires network configuration; the slave units do not.

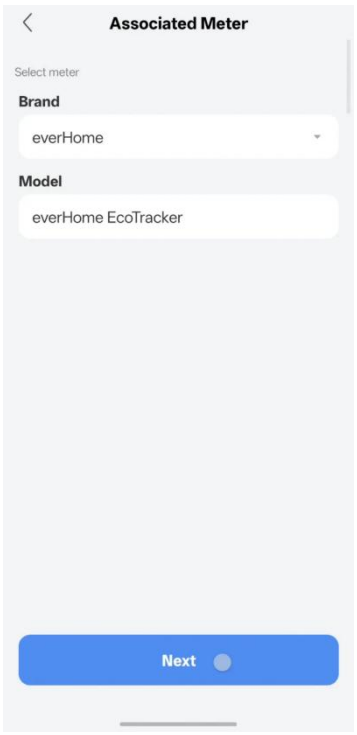
5. Connect the Master Unit to a Smart Meter

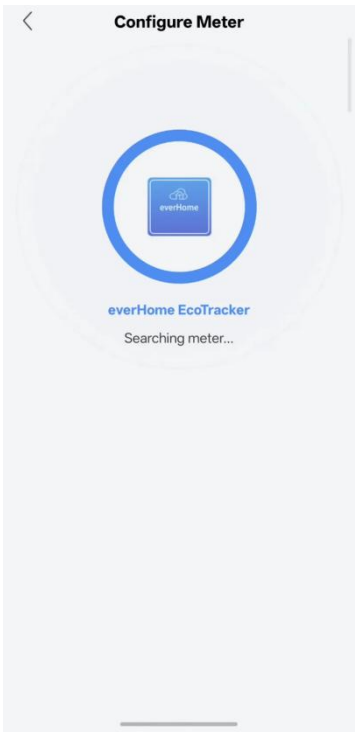
Compatible Smart Meters for the AURA 5000

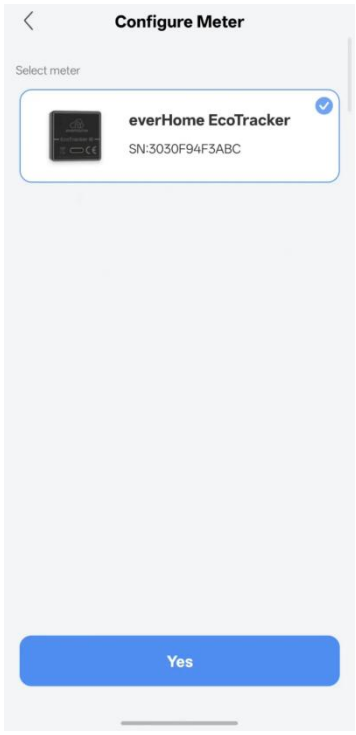
- Third-party network-connected smart meters (the meter and AURA 5000 must be on the same local network): Shelly 3EM, Shelly Pro 3EM, Shelly Pro 3EM-3CT63, Shelly Pro EM-50, Shelly Pro 1PM, everHome EcoTracker and HomeWizard P1 Meter.
- Growatt smart-meter accessories: SEM5-1 Smart Meter (LoRa) and SM-WLS01 Infrared Meter Reading Head. Follow the applicable meter-specific pairing instructions.

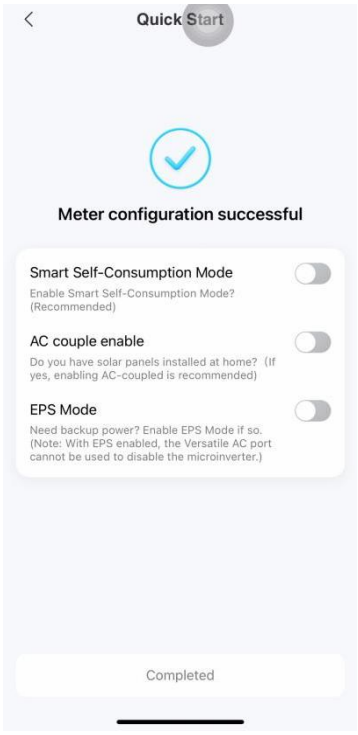
During initial setup, follow the prompt to associate a smart meter. Alternatively, open Settings > Associate Meter in the app.











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6. Configure System Power Limits

6.1 Daisy-Chain Connection: The system uses the same on-grid power limits as a single unit. The default limits are 2300 W charging and 800 W discharging. The limits do not multiply by the number of connected units. With Power+ enabled, the limits shown for this configuration are up to 2500 W for both charging and discharging.

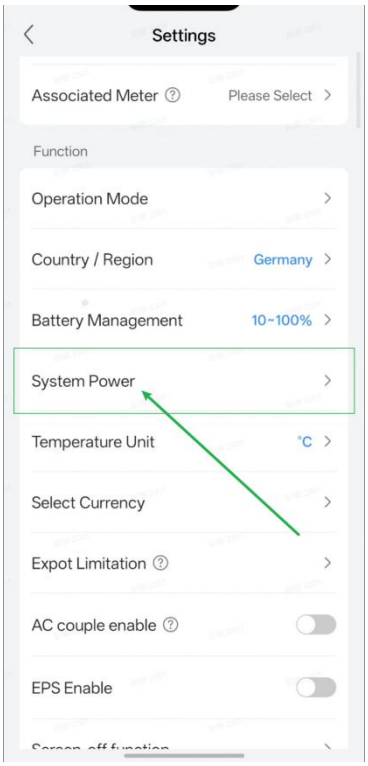
6.2 Independent Grid Connection: The initial system power limits are 2300 W charging and 800 W discharging. They can be adjusted up to 2300 W × N charging and 800 W × N discharging with Power+ disabled, or up to 2500 W × N for both charging and discharging with Power+ enabled. N is the number of units directly connected to the grid (1–4).

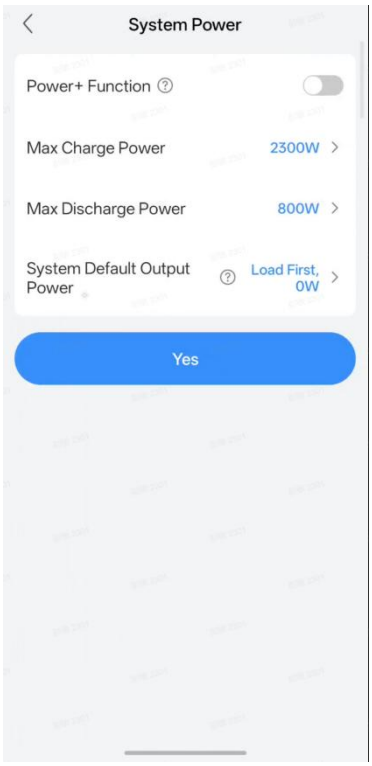
These values are configurable upper limits, not fixed operating power. To change them, open System Power in the ShinePhone app.

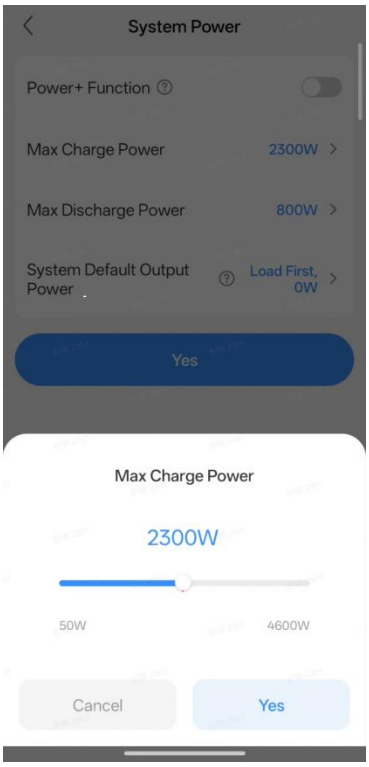
Daisy-Chain Connection			
Power limit	Default	Power+ off	Power+ on
Max. charging power	2300 W	0–2300 W	0–2500 W
Max. discharging power	800 W	0–800 W	0–2500 W
Independent Grid Connection			
Max. charging power	2300 W	0–2300 W × N	0–2500 W × N
Max. discharging power	800 W	0–800 W × N	0–2500 W × N

* N refers to the number of units directly connected to the grid.

System Power settings (Section 6): screenshots illustrating the system charge-power limit adjustment.







7. Set the Operating Mode

System Power (Section 6) sets only the maximum charging and discharging limits; the actual operating power depends on the selected operating mode and system conditions. To set the mode, open Settings > Operation Mode in the ShinePhone app. For an installation with a compatible smart meter, Smart Self-Consumption Mode is recommended.