APsystems Energy Communication Unit ECU-C Quick Installation Guide

This guide is for reference only and applicable to APsystems energy communication unit ECU-C. For more information about the settings and functions of ECUs, download the EMA Manager and read the detailed instructions in the user manual (available at www.APsystems.com).

Step 1: Power on ECU-C.

To install the ECU-C in YC1000, YC600, QS1, DS3, DS3D, QT2, and QT2D systems, connect the power cable to the AC input port. You can also connect the DC input port of ECU-C to obtain power through a 16V DC power cable. If only single-phase power is needed, L1 must be connected.

	L1	L2	L3	N	PE
Three-Phase	√	√	√	√	√
Single-Phase	√	×	×	√	√

Note: Do not put antennas inside a metal box; otherwise, the signals will be blocked. If the roof is made of metal, use extension antennas and place them outdoors or on the roof.

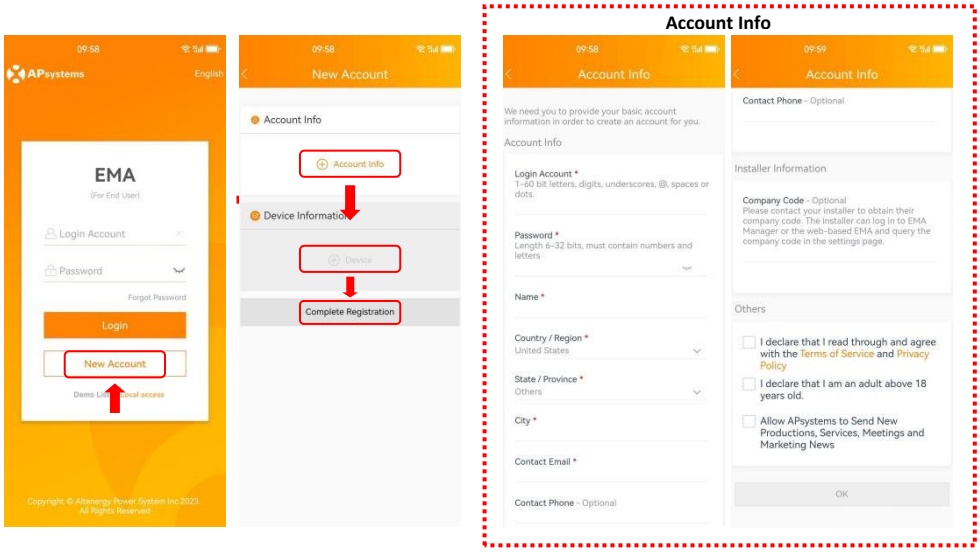
Scan the QR code to download our apps from the browser. (The EMA app is applicable to end users and DIY users, whereas the EMA Manager app is designed for professional installers.)

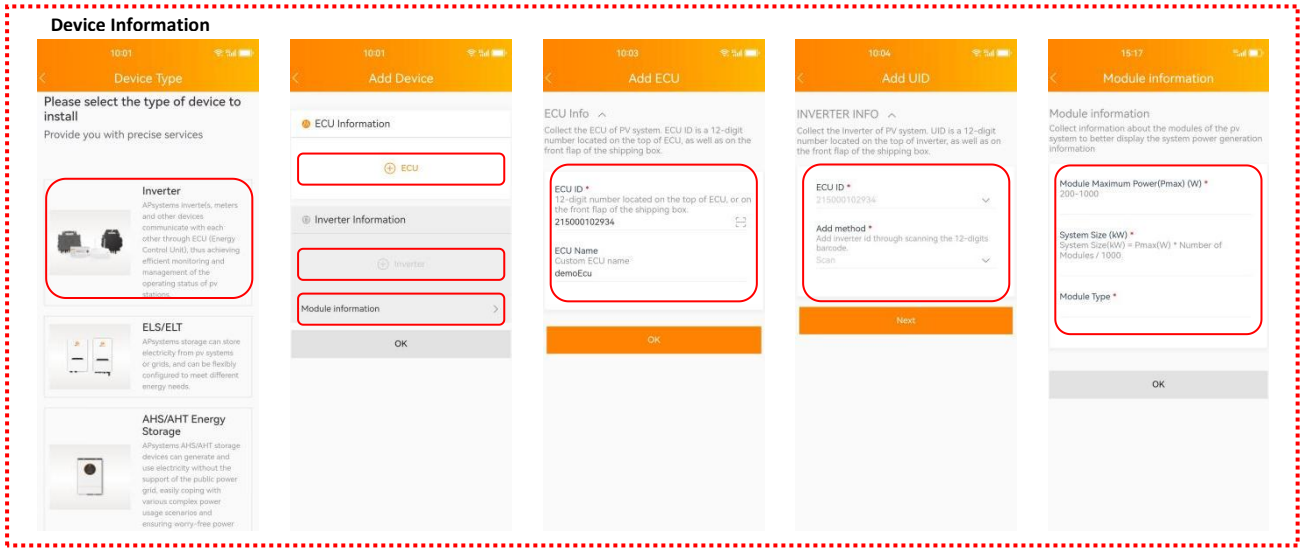
You can also click this link to download the apps: http://q-r.to/1OrC

Step 2: Register for an account.

1. Connect your phone to the Internet, open the EMA app, and tap **New Account**. 2. Enter the required information in order and tap **Complete Registration**.

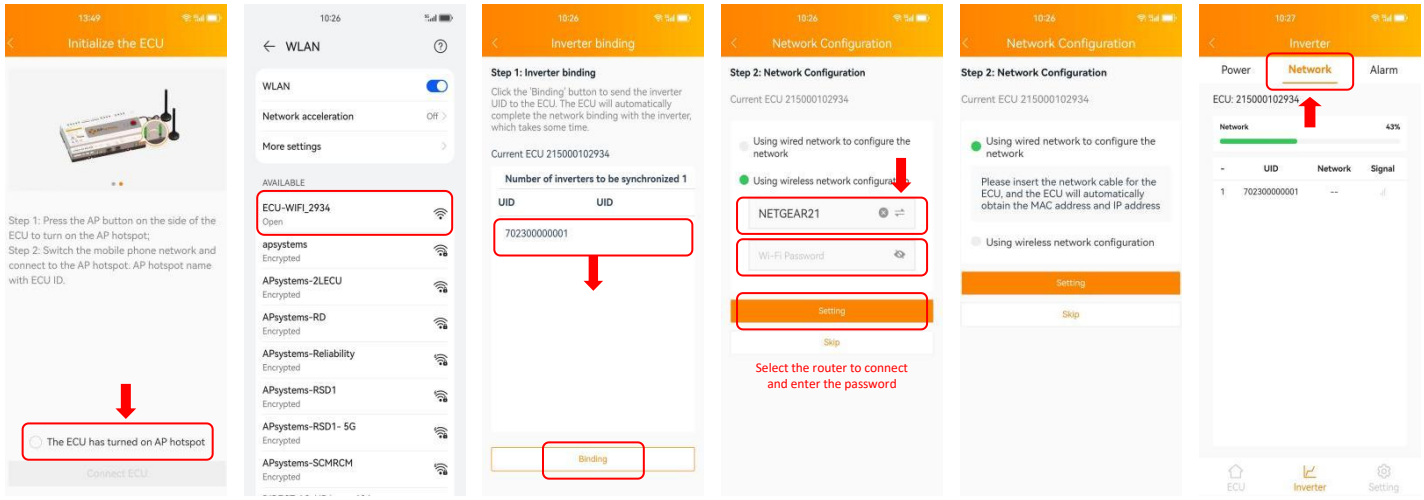
Note: If you have an installer, contact your installer to get the company code to access your installer's after-sales O&M services.





Step 3: Initialize the ECU.

1. Switch your mobile phone connection to the Wi-Fi hotspot of the ECU to be initialized. 2. After account registration, tap **Initialize ECU** to start ECU initialization. 3. Configure the settings for inverter binding and network configuration. Wait for the network binding of the inverter to complete. When the binding progress reaches 100%, ECU initialization is complete. You can check the binding progress by tapping **Inverter** > **Network**. This process may take some time depending on the number of inverters and the installation environment.

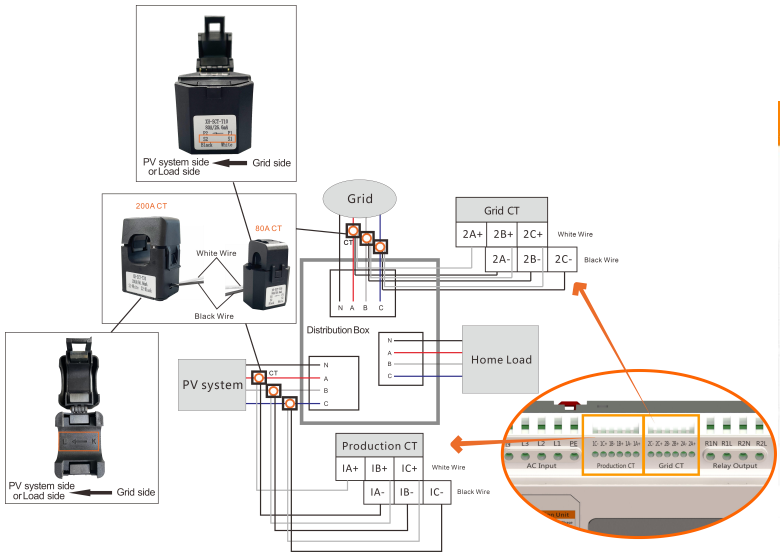


Step 4: Perform remote or local monitoring.

Remote monitoring: After you log in to your registered account, you can monitor the system remotely.
Local monitoring: Connect to an AP hotspot and tap **Local Access** to monitor the system locally.

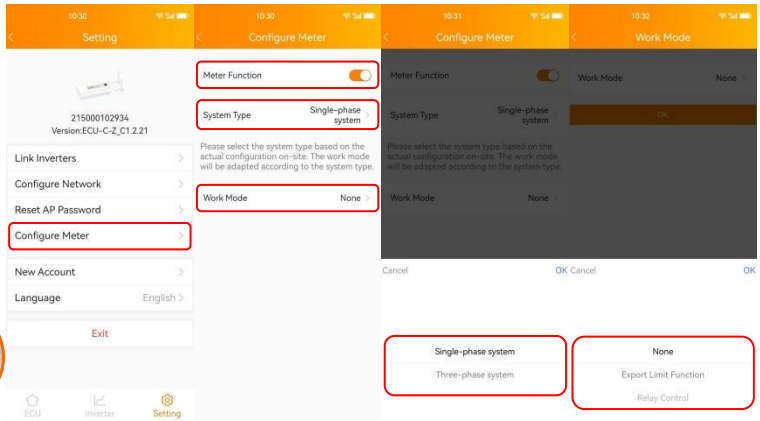
Step 5: CT (Current Transformer) Installation

The position of the CTs: Clamp the CTs on production lines from PV system and import/export lines from public grid.
The direction of CTs: The arrows on the CT should point from grid to PV system and from grid to distribution box.
The wiring of the CTs: White wires connect to "+" Production CT ports on ECU-C and black wires connect to "-" Grid CT ports on ECU-C.
CTs are as optional accessories provided, to ensure the CTs could match APsystems ECU-C, please purchase CTs from APsystems or APsystems distributors.
80A and 200A CTs are available.



Meter Settings

After the metering functions activated and CTs (current transformers) in place, the meter data will be displayed, and different control functions can be selected.For more information,places read the detailed instructions in the user manual.



FAQs

Q: If I enter a wrong inverter UID or the inverter needs to be replaced, how do I modify the inverter UID registered on the ECU?
A: Log in to your EMA account, and tap **Local Access** > **Setting** > **Link Inverters**. On the page that appears, you can delete the inverter UID to be modified and add new UIDs. Tap **Binding** to complete the binding of the new inverter. If the wrong inverter UID has been registered to a user account before replacement binding, contact the distributor or APsystems to update the account information.
Q: What do I do if I cannot tap **ECU Information** or **Inverter Information** when I register for an account?
A: You need to enter the account information, ECU information, and inverter information in order.
Q: What do I do if the system prompts that the registration fails after I tap **Complete Registration**?
A: Check whether your phone is switched to a 4G/5G network or connected to a router.
Q: What do I do if the system fails to find a device connection during ECU initialization?
A: Make sure that your phone is connected to the Wi-Fi hotspot of the ECU to be initialized.
Q: How do I check whether Wi-Fi pairing is successful during initialization?
A: You can check whether the network connection is successful on the **Network Configuration** page.

Product information is subject to change without notice. (Please download manuals at www.APsystems.com)

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