

ECU-C Energy Communication Unit with advanced functions

Quick Installation Guide

This guide is for reference only and assumes you have access to, and have read the detailed instructions in the ECU-C Users Manual (available at APsystems.com).

Step 1: Power-on ECU

ECU-C installed in the YC1000, YC600 and QS1 system, connect the supplied power cable to the AC input port. can also be used 16V DC power supply, the 16V DC power line access to DC on the ECU-C interface. **If only single-phase power is needed, the L1 must be connected.**

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

NOTE: Do not put the antennas inside a metal box, that will block the signal.

Step 2: Connect ECU to Internet

Option 1: LAN connection – use the LAN Cable to connect ECU to a Broadband Router.

Option 2: WiFi connection.

Turn on the Wi-Fi function on PC or phone. Scan the ECU’s SSID which named “ECU-WIFI_XXXX” (the “xxxx” refers to the last 4 numbers of the ECU-C ID), connect to the ECU-C’s SSID. The first connection has no password. Using a standard web browser on your computer, Enter the ECU’s IP 172.30.1.1 into browser to access the local web. Select “Administration” and “WLAN”, then click “WLAN” tab. Select the button next to the available network that you wish to access SSID, and a password entry field will be displayed below the network name.

Enter the password into the password entry field, then click “Connect”. If ECU has connected to the router, it will display the SSID and IP address.

Step 3: Register microinverters to ECU and configure the system.

Option 1:

1) Scan the ECU’s SSID on PC and phone, and connect to ECU. Enter the ECU’s IP 172.30.1.1 into browser to access the local web. This should bring up the screen below:

2) Click “Administration”, then click “ID management”, and enter the inverter IDs into the ID Management box, or use the Scanning Gun to scan the inverter IDs and copy into the ID Management box. Or using the EMA App, scan the inverter IDs by mobile phone.

Product information is subject to change without notice.




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Home

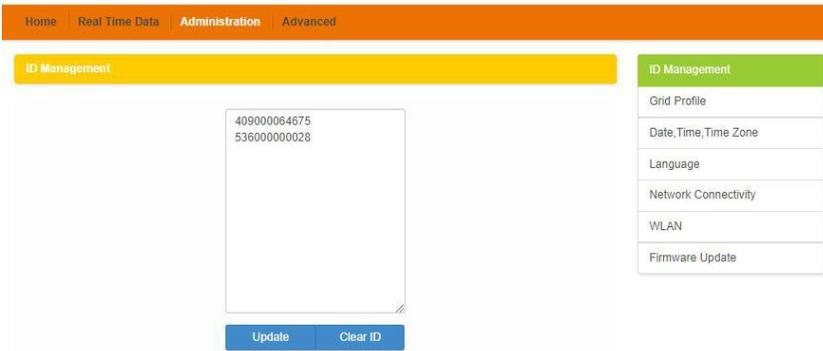
ECU ID	21500000200
Lifetime generation	0.29 kWh
Last System Power	0 W
Generation of Current Day	0 kWh
Last Connection to website	2020-06-05 12:39:25
Number of Inverters	2
Last Number of Inverters Online	0
Current Software Version	C1.1
Current Time Zone	Asia/Taipei
ECU Eth0 Mac Address	80:97:1B:00:AC:E0
ECU Wan0 Mac Address	60:C5:A8:E6:09:1C

2020-06-05 13:07:20
Friday

ENVIRONMENTAL BENEFITS

CO₂ Offset Equivalent to

0	GALLONS
0	TREES
0	KG



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ID Management

ID Management

Grid Profile

Date, Time, Time Zone

Language

Network Connectivity

WLAN

Firmware Update

409000064675
536000000028

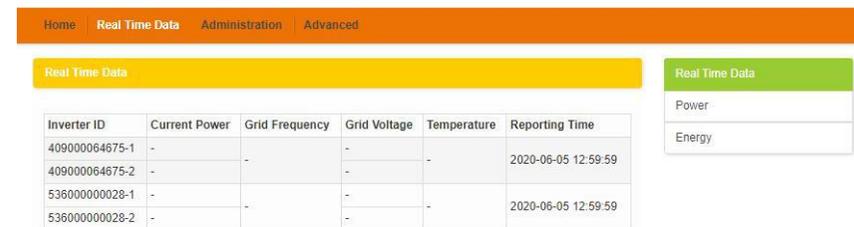
Update Clear ID

Three Phase Configuration

Note: If a three-phase system composed of APsystems's single-phase micro-inverters needs to realize the function of independent anti-backflow of each phase or limit the grid power or three phase balance or extended phase symmetry, it is necessary to register the micro-inverters connected to each phase separately in the corresponding boxes.

3) Click “Update”, and the ID will be updated in the ECU.

4) Click “Real Time Data” from the ECU Home, to view the real-time data of all microinverters.



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Real Time Data

Real Time Data

Inverter ID	Current Power	Grid Frequency	Grid Voltage	Temperature	Reporting Time
409000064675-1	-	-	-	-	2020-06-05 12:59:59
409000064675-2	-	-	-	-	2020-06-05 12:59:59
536000000028-1	-	-	-	-	2020-06-05 12:59:59
536000000028-2	-	-	-	-	2020-06-05 12:59:59

Power

Energy

5) If a microinverter does not show up, please confirm if the inverter's ID is correctly input.

6) Configure time-zone

- Click “Administration”, then “Date, Time, Time-zone” .

7) Step 6: Select grid profile

- Click “Grid Profile”, then select “Grid profile” .

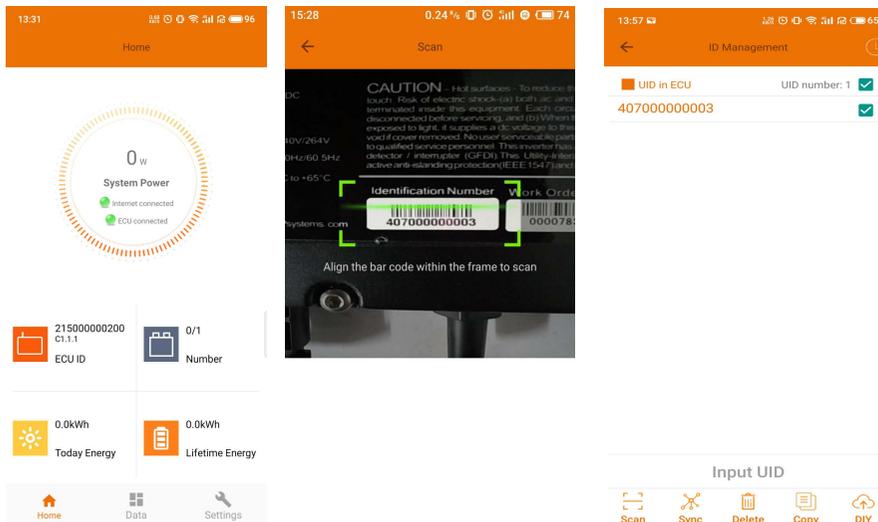


NOTE: If you select the wrong grid profile, the inverters will not work normally.

Option 2:

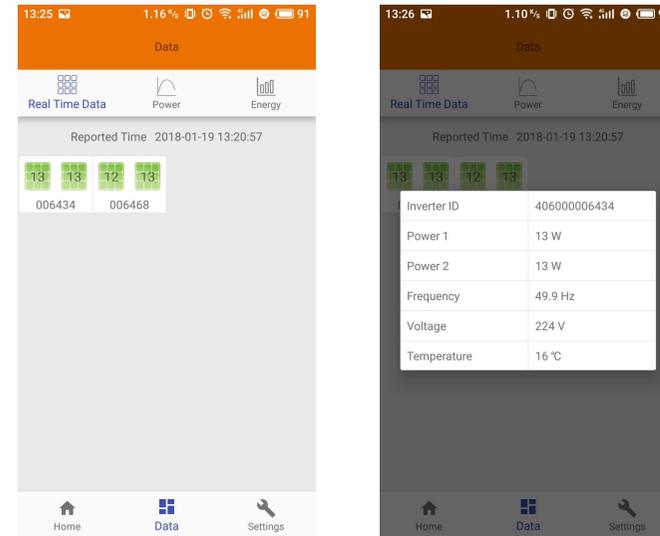
1) Click "Home" at the bottom of the page. The information about systems info of ECU-C, ECU-C ID, version, total number of inverters, the number of connected inverters, intraday power output, historical Power output and current system power shall be displayed.

2) Click "Settings", select "ID Management", input the UID manually or scan the UID by camera. If there is no need to modify, then click "SYNC" to update the UIDs onto ECU.



3) Real Time Data

- This page shall display the added inverter. According to different models of inverter, each inverter would have the corresponding modules displaying the real time power. Click "Module", the detailed information of the inverter shall be displayed, including inverter ID, PV module power, grid voltage, frequency and temperature.



4) Grid Profile

- User needs to select grid profile when installing the system.

