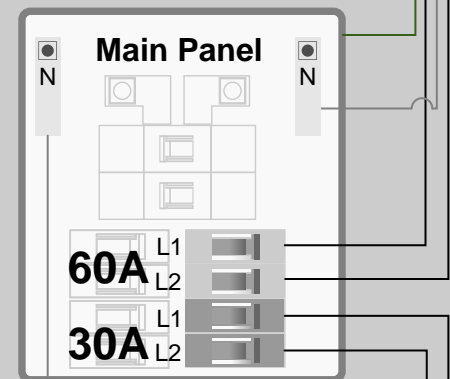
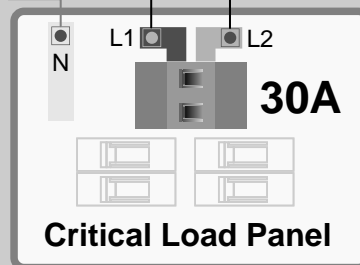
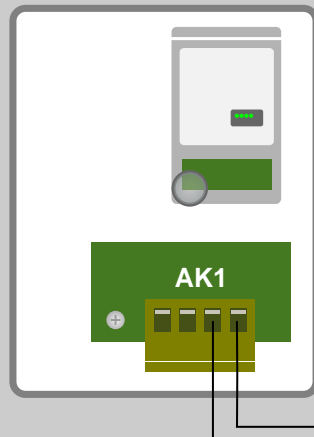
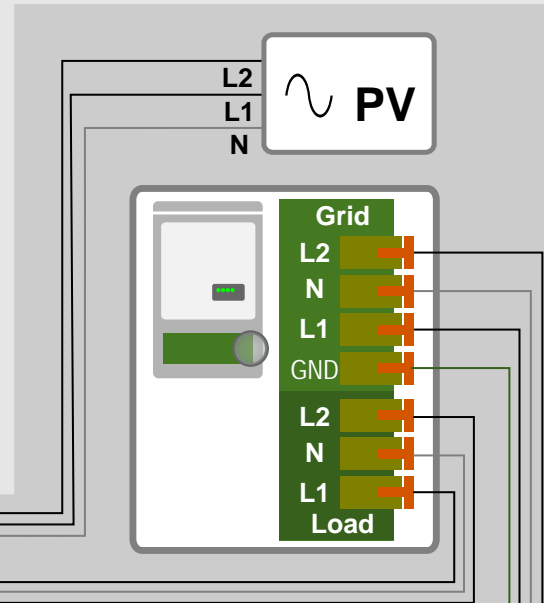
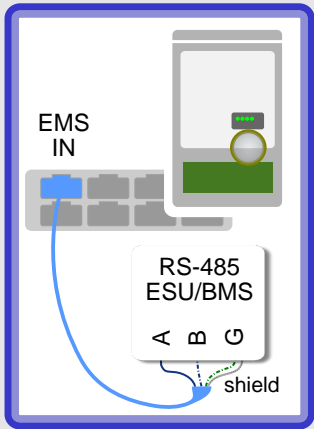
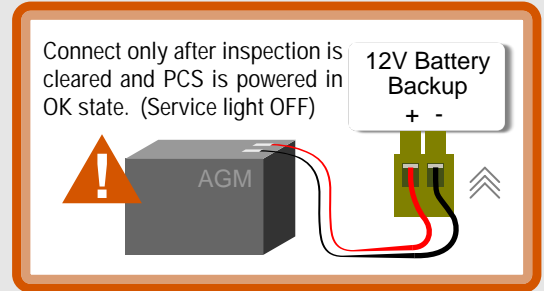
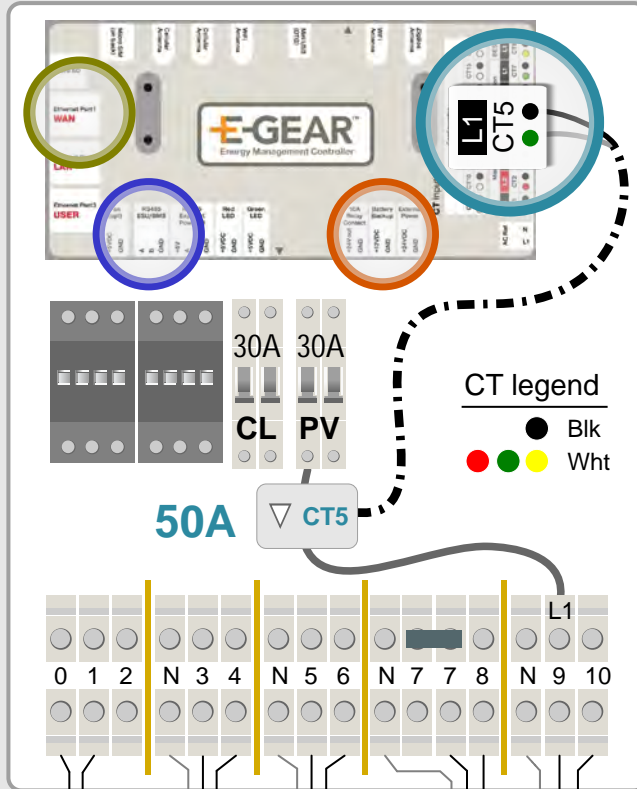
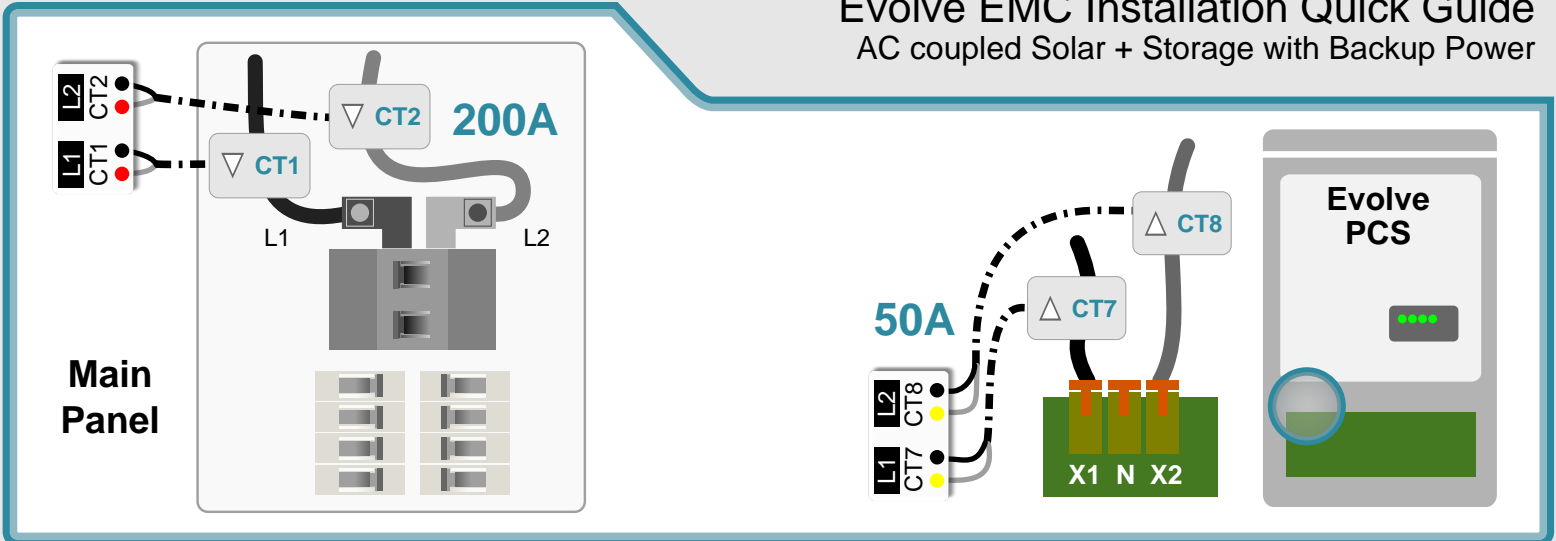


# Evolve EMC Installation Quick Guide

## AC coupled Solar + Storage with Backup Power



Note: This guide is intended to cover the installation steps required to operate the system. It is not a substitute for a code compliant installation, including, for example, any additional disconnects required for generation sources.

# Evolve EMC Commissioning Quick Guide

Installer login account required

## 1 Power up the Evolve ESS.

1. Press button on the master battery module.
2. Turn ON battery disconnect (DC).
3. Turn ON ACXIS panel 30 Amp breaker.
4. Turn ON Evolve ESS 60 Amp breaker.

### Prerequisites:

EMC has valid ethernet connection. If connecting via wi-fi, proceed to step 7 and complete steps 7,8,9 before returning to step 2.

## 2 Connect your PC to the EMC mini USB service port.



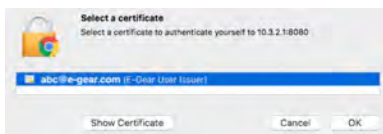
## 3 Login to the EMC configuration application via web-browser.

<https://10.3.2.1:8080>

1. Proceed past security warning (if prompted, click advanced, ignore security warning).
2. Present the PKI certificate\* loaded on your PC.

\* Refer to the PKI certificate instructions if you have not already obtained one.

Note: It can take up to 12 hours (normally under 15 minutes) after the initial internet connection for the EMC device to obtain the PKI certificate info that permits your service port connection.



Inverted  Yes

Update

Calibration mode  None

Proceed

If CT orientation is reversed, correct one of two ways:  
a. Remove and mount CT in the opposite direction. **OR**  
b. click on CTx and select

|       | CT Configuration |       |                 |                   |                   |
|-------|------------------|-------|-----------------|-------------------|-------------------|
|       | CT1              | CT2   | CT5             | CT7               | CT8               |
|       | Mains            | Mains | Generation (PV) | Battery           | Battery           |
| Watts | +                | +     | -               | + chg<br>- dischg | + chg<br>- dischg |

Use the import & export configuration command buttons to save and copy configuration settings from one EMC to another.

Import Configuration

Export Configuration

## 4 Configure the Gateway for the Evolve ESS.

A typical solar + storage with backup power config is shown below.

| Gateway Configuration           |                     |                                    |                                      |
|---------------------------------|---------------------|------------------------------------|--------------------------------------|
| Energy algorithms               |                     |                                    |                                      |
| Algorithm mode                  | Self Supply or TOU* | Relay mode                         | NC = PV Export<br>NO = PV Non-export |
| Inverter type                   | Eguana AC Battery   | Baud rate                          | 115200                               |
| Export pwr threshold (W)        | 500                 | Max export duration (s)            | 5                                    |
| Export curtailment duration (s) | 60                  | Applicable for PV non-export only. |                                      |

\*TOU plans not currently in the system can be requested at the time of order. The TOU plans are updated remotely.

| PCS settings                                |                        |             |                                      |
|---|------------------------|-------------|--------------------------------------|
| Generation capacity                         | Enter PV inverter size | Relay mode* | NC = PV Export<br>NO = PV Non-export |
| * Relay mode must match product as ordered. |                        |             |                                      |

| Self supply settings                         |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> No export mode      | <input checked="" type="checkbox"/> Enable only if PV export is not permitted.          |  |  |
| <input type="checkbox"/> Ignore all loads    | <input checked="" type="checkbox"/> Enable only if ESS is used as backup only solution. |  |  |
| <input type="checkbox"/> Disable charging    | Do not use.   |  |  |
| <input type="checkbox"/> Disable discharging | <input checked="" type="checkbox"/> Enable only if ESS is used as backup only solution. |  |  |

Other

Onboard battery backup enabled

Apply changes

## 5 Configure the CT's.

|                     | CT Configuration |       |                 |         |         |
|---------------------|------------------|-------|-----------------|---------|---------|
|                     | CT1              | CT2   | CT5             | CT7     | CT8     |
| click to edit →     | CT1              | CT2   | CT5             | CT7     | CT8     |
| CT type             | Mains            | Mains | Generation (PV) | Battery | Battery |
| CT phase            | L1               | L2    | Balanced        | L1      | L2      |
| Subtract from loads | No               | No    | Yes             | Yes     | Yes     |
| CT size             | 200              | 200   | 50              | 50      | 50      |

Update Calibration mode  None Proceed

## 6 Verify CT direction.

Note: solar output required.

Output power convention: load = + Watts, gen = - Watts

If CT orientation is reversed, correct one of two ways:  
a. Remove and mount CT in the opposite direction. **OR**  
b. click on CTx and select

Inverted  Yes

Update

Calibration mode  None

Proceed

## 7 Complete the Wi-Fi setup\* via web-browser.

<https://10.3.2.1> Proceed past security warning if applicable.

Join Network

1. Enter login credentials: username: **egear** password: **mypowermyway**
2. Select customer **Wi-Fi SSID** and enter **password**.

\* If applicable. Wi-Fi signal strength must be higher than 50/100 for a reliable connection. Customer internet connection required. If Wi-Fi not available, an ethernet connection from the customer router to EMC Ethernet port 1 (WAN) is required. IP is DHCP assigned from router.

Register Device Online: UID indicated on front of EMC.

## 8 Login via web browser.

Secure | [https://www.mypowermyway.com/fleet\\_installer\\_users/sign\\_in](https://www.mypowermyway.com/fleet_installer_users/sign_in)



## 9 On-board (register) customer and device.

Add New Device

installer dashboard devices commissioning profiles customers blocks management

1. Enter **customer email**, address, and telephone number.
2. Enter **Device UID** and **S/N** included on the EMC registration card inside the EMC enclosure.
3. Enter Device location, allowing gateway to link weather data.
4. Assign your company to the Device Management field.

\* Gateway reports to cloud in 5 minute intervals. Allow up to 15 minutes for initial data.

Add Device

## Site Equipment Record

Take pictures as built.

Record all equipment serial numbers.