1. Remove zappi from it's packaging and keep all CT's and fixing kit to one side. CT's and fixing kit are enclosed within the cardboard packaging.

**Single phase—1 CT**
Three phase—3 CTs

2. Unscrew the cover and unclip flat ribbon cable.

- If fitting an untethered zappi, protect the cover while it hangs down during installation
- If tethered, unclip the ribbon cable and set the cover aside

3. If installing a tethered zappi you will need to fit the enclosed cable wall guard to the unit using the 4x **4mm x 12mm** screws supplied
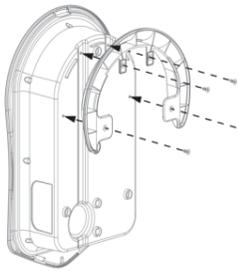
4. There are 4 possible cable entry positions, carefully decide which one you are going to use from the above image. **You will need an IP65 or above rated cable gland.**

Carefully drill hole into unit to match the size of your cable gland. Attach cable gland ensuring IP rating is maintained
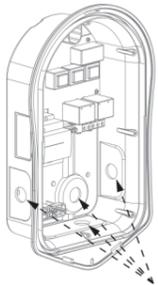
5. Using the enclosed template mark all the mounting holes required.

- Use top and 2 bottom holes left/right for brick (Use a **7mm** diameter masonry drill and the wall plugs provided)
- Use 3 vertical holes if mounting to a stud wall or joist.
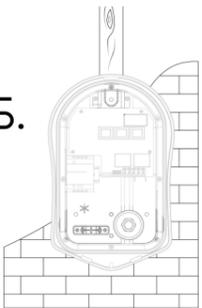
6. **To maintain the IP rating of the unit you must ensure that the bungs provided are inserted in any mounting holes that are not used.**
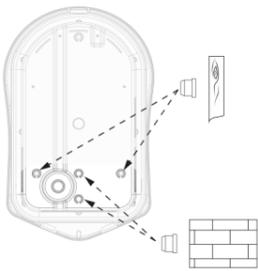
7. **Using the fixing kit provided secure unit to the wall ensuring the sealing washers are used to maintain its IP integrity** (Note: if using the rear cable entry remember to insert the mains cable before mounting to the wall!)

8. Ensure any cable glands used are now tightened

9. Connect the supply cable in accordance with the local wiring regulations. Strip back 10mm of Insulation from the wires on the mains cable.

Using a torque driver, tighten all main screw terminals to a setting of 1.2Nm

N.B There is also a dedicated stud terminal bottom right hand corner of the main circuit board where you can connect a TT earth to, using a ring terminal.

Three phase wiring

Single Phase wiring

10.
- Connect any relevant CTs into the termination blocks provided. **The CT Golden Rules must be followed for the** zappi **to work correctly**
- Plug the termination blocks into the terminals on the zappi making sure they are pushed firmly home.
- Make a note of what each CT is measuring and record it below E.g Grid, Generation, AC Battery
- Ensure the **RED** goes to + and **BLACK** goes to -
- You can use the Harvi if hardwired CTs are impractical
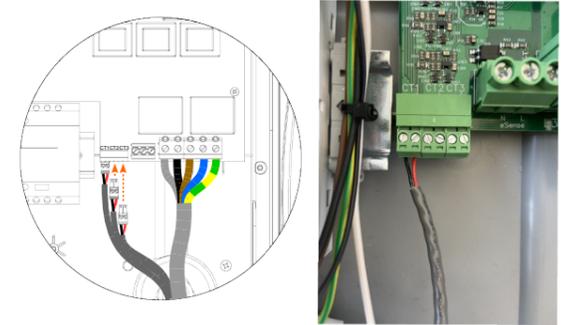
CT1 _____

CT2 _____

CT3 _____

CT Golden Rules

Grid CT
- Only <u>ONE</u> Grid CT per phase (check for only one ~ symbol in Linked Devices Info).
- Must be located to 'see' ALL import and ALL export current (i.e. always upstream of any junction box).
- Arrow pointing in direction of import (e.g. towards consumer unit if on Live cable).
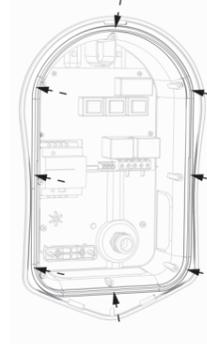- Must be on the same phase as the Master myenergi device.

All other CTs
- Arrow should point in direction of normal power flow INTO the consumer unit

3-Phase harvi **CTs**
- When using harvi in 3-phase mode, the CT inputs correspond to the phase number (e.g. CT1 = Phase 1).

11. **Ensure O-ring is present and sits neatly into its channel.**

12. Refit the cover ensuring that the ribbon cable is seated firmly, both in the zappi and onto the back of the cover.

Using a torque driver, tighten all 8 front cover screws to a setting of 1.2Nm.
Now re-fit the black or white front fascia

13. Ensure all relevant testing and inspection has been carried out according to local wiring regulations, then power up the zappi.

Directly connected CTs

14. Configure any hardwired CTs that you have connected at step 10 in the CT Config menu . *Three phase* zappis *will need one CT per phase.* You will need to use a Harvi to connect any other CT's you want to use. (Unless you have other zappi's or eddis on each phase that you can connect to instead)

(Press menu button>
Other settings...>
  Advanced...>
  0 0 0 0 >
  CT Config)

```
         CT CONFIG
CTINT:   Internal Load
CT1:              Grid
CT2:              None
```

At this point, refer to step 10 to see what you have connected to CT1, CT2, CT3.
NB. Leave CTINT settings set to factory default unless advised otherwise

Setup instructions
continue overleaf...

CT's connected using harvi

15. If using a harvi, once the harvi has been paired, make sure that you have disabled the corresponding hardwired CT's on the zappi CT Config menu.

i.e. if the Grid CT is wired into a harvi make sure that **none** of the hardwired CT's are also set to Grid

```
        CT CONFIG
CTINT:  Internal Load
CT1:              None
CT2:              None


    LINKED DEVICES
        HARVI
Readings…
TYPE:     Single Phase
CT1:               Grid
CT2:               None
CT3:               None
Remove Device
```

For more information on setting up harvi **please refer to the full** harvi **manual instructions.**

Linked Devices

16. If using a harvi or a hub you need to set zappi to **"Master"** in the Linked Device menu and follow the individual hub/harvi instruction manuals to ensure the correct setup and pairing

```
    LINKED DEVICES
Devices…
Pairing Mode…
Channel…..
Set Master ✓
Reset Settings…
```

17.
1. Put the harvi into pairing mode by pressing the button on the harvi until you see BLUE flashes. The harvi will stay in pairing mode for 2 minutes. (amount of blue flashes indicates the channel)
2. Now select "channel" on the zappi and make sure this corresponds with the channel harvi is on.
3. Put the zappi into pairing mode by selecting the menu *Other Settings…> Advanced…> 0 0 0 0 >Linked Devices…>Pairing Mode…*
4. The zappi will search for the harvi and display it's serial number on the screen.
5. Press the + button to complete the pairing. After a countdown the screen will refresh and show the connected devices with the harvi listed.

```
        DEVICES
1-ZAPPI  12001234  XM
  Harvi   10372160  ~
```

Remember to set up the CT's that are connected to the harvi **on the menu** *Other Settings…> Advanced…> 0 0 0 0 …> Linked Devices…>Devices…>Harvi…>*

Pairing a hub

18.
1. Put the hub into pairing mode by briefly pressing the pair button on the hub. The hub will stay in pairing mode for 2 minutes.
2. Put the zappi into pairing mode by selecting the menu *Other Settings..> Advanced..> 0 0 0 0 > Linked Devices>Pairing Mode.*(ensure both on same channel)
3. The zappi will search for the hub and display it's serial number on the screen.
4. Press the + button to complete the pairing. After a countdown the screen will refresh and show the connected devices with the hub listed.
5. Please refer to our website for instructions on how to update firmware. We would advise starting the firmware process before installing the zappi as it can sometimes take a while to complete.

```
        DEVICES
1-ZAPPI  12001234 XM
  Harvi   10348917  ~
  Hub     10382764
```

19. Ensure you have the correct phase for your single phase zappi now set in the "Supply Grid" menu under "Use Phase". The default is set to 1 – leave this unchanged if you are working on a property that only has a single phase supply

For three phase zappis you need to set the correct phase rotation for your installation.

```
      SUPPLY GRID
Phase:              1
Device Limit:   32.0A
Export Margin:     0W
Grid Limit:       80A
Battery:         None
Net Phases:       OFF
Neutral Limit:    OFF
```

```
      SUPPLY GRID
Phase Rotation:   123
Device Limit:   32.0A
Export Margin:     0W
Grid Limit:       80A
Battery:         None
Net Phases:       OFF
Neutral Limit:    OFF
```

For more advanced setups, please refer to the full instructions for each relevant device.

myenergi

zappi
eco-smart EV charge points

Quick Install Guide

This covers the following models:

Single phase: 207TB, 207TW, 207UB, 207UW

Three phase: 222TB, 222TW, 222UB, 222UW