



## Installation Guide – CT Clamp and harvi requirements

CT clamp configuration is critical for the myenergi ecosystem to function as intended. Without the appropriate information being fed to the devices via CT clamps, the devices will not be able to accurately measure and respond to energy flows.

If CT clamps are not being utilised in the installation, ensure the CT configuration is set to **None** in the CT Config menu so the device does not go into an error state when it is unable to detect CTs.

### Grid

CT clamps **must** be installed on each phase of the incoming mains for the devices to report accurately, utilise surplus energy and load balance. Your device will come with enough CT clamps to connect to the grid supply based on version of device being installed.

7kW zappi	eddi	22kW zappi
1 x CT Clamp	1 x CT Clamp	3 x CT Clamps

If installing an eddi or a 7kW zappi on a 2 or 3 phase supply, **additional CT clamps and a harvi** are required. Single phase devices are unable to detect phase rotation, therefore the harvi is needed as a workaround to enable this.

If installing a zappi on a 2 phase property, ensure the phases are 120 degrees apart (415v). zappi will not be able to accurately read the phase rotation if they are 180 degrees (480v split phase). In these cases, it is best to install the zappi as if it is on a single phase.

### Generation (solar, wind, micro hydro etc.)

Adding CTs to the generation source is not essential for the devices to make use of surplus energy. Adding CTs to generation will allow the user to monitor their generation from their device and the myenergi app and provides a complete picture of whole premises energy use. A CT clamp for each phase of generation is required.

### Storage Battery (AC coupled/DC hybrid)

CT clamps can be installed on an AC Coupled battery to monitor live current going to and from the battery. This will also allow the devices to avoid consuming battery power during times of solar generation.

Battery drain can not be avoided when devices are set to boost or the zappi is set to FAST. In these modes, any battery will see the device as a load requesting power and supply it.

CT clamps cannot read DC current and are not suitable for DC batteries. To avoid battery drain with DC batteries, set an export margin in the device settings.

### Monitor

A CT clamp can also be used to monitor a load or specific circuit within the home. Once installed, set the CT type to Monitor.

*note: Monitor function is only applicable to hard-wired CTs, this feature is not available to CTs connected to a harvi*

The following table is an indication of the additional hardware required for specific installation scenarios

Grid Supply	Device	Solar monitoring	Battery	extra CTs	harvi
Single phase	7kW zappi/eddi	No	No/DC	-	-
Single phase	7kW zappi/eddi	Yes	No/DC	1	-
Single phase	7kW zappi	Yes	AC (Single phase)	2	-
Single phase	eddi	Yes	AC (single phase)	2	1
Two phase	7kW zappi/eddi	No	No/DC	1	1
Two phase	7kW zappi/eddi	Single phase	No/DC	2	2
Two phase	7kW zappi/eddi	Single phase	AC (Single phase)	3	3
Three phase	22kW zappi	No	No/DC	-	-
Three phase	22kW zappi	Single phase	No/DC	1	1
Three phase	22kW zappi	Three phase	No/DC	3	1
Three phase	22kW zappi	Single phase	AC (Single phase)	2	2
Three phase	22kW zappi	Three phase	AC (Single phase)	4	2
Three phase	22kW zappi	Three phase	AC (Three phase)	6	2
Three phase	7kW zappi/eddi	No	No/DC	2	1
Three phase	7kW zappi/eddi	Single phase	No/DC	3	1
Three phase	7kW zappi/eddi	Three phase	No/DC	5	2
Three phase	7kW zappi/eddi	Single phase	AC (Single phase)	4	1

### Multiple devices – Master/Slave configurations

In instances where multiple devices are installed together in a master-slave configuration, additional hardware is not required for any additional devices. All CT information is fed to the master device, which then shares the data to the slave devices. Devices purchased to be installed as slaves will also come with CTs so ordering additional CTs may not be necessary. Up to six devices can be configured in a master-slave grouping, including any harvis or vHub.

If any guidance or clarification is required, our tech support team are willing to assist:

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