

Installation Instructions - BLUE CATCH

**IMPORTANT:**

This product must be installed by a licensed electrician. This product must be installed According to the AS3000 – Australian Wiring Standards.

Inside the Package

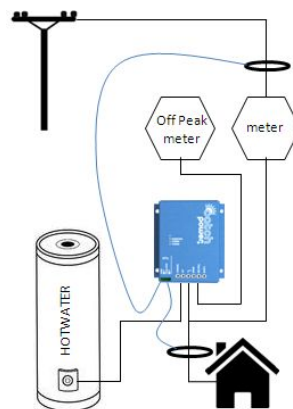
- 1 x Diverter
- 1 x Communicator
- 2 x Current Transformers
- 1 x CAT5 Network cable
- 1 x Power cable

Installation Overview

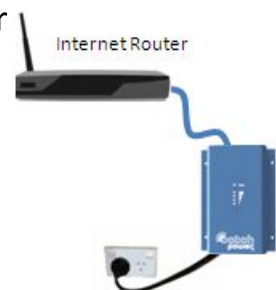
1. Register the device at: <http://www.catchpower.com.au/my-account>

- Only our registered installer partners can register the device.
- Once registered an email will be sent to the device owner with login details for their CATCH unit.

2. Install the CATCH **Diverter** inside the meter box



3. Install the CATCH **Communicator** next to the internet router



Diverter Installation

IMPORTANT:

- Maximum load allowed to be connected to HW terminal is 20A RMS.
- Cable sizing must be chosen based on the AS3000 wiring standard.
- The Diverter must be protected from the weather. The recommended installation location is inside the meter box, behind the metering board.



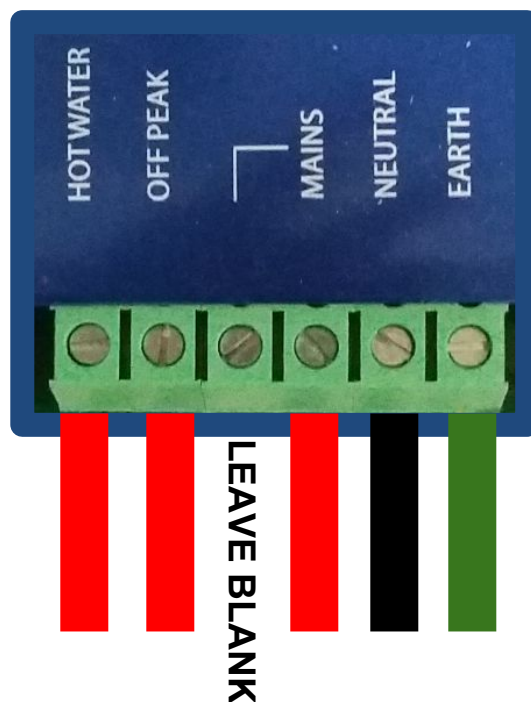
ALL CT's ARE DIRECTIONAL.

Make sure you know which direction the arrow is pointing before placing the CT.

- The Arrows next to the CT's in the wiring diagram represent the arrows on the inside of the CT's
- NEVER disconnect CT's from diverter while they are wrapped around a current carrying conductor.
- If Off Peak is not available leave the Off Peak connection empty.
- Some electrical jurisdictions do not allow switches in the Off Peak circuit, if this is your case then do not connect the off peak circuit.

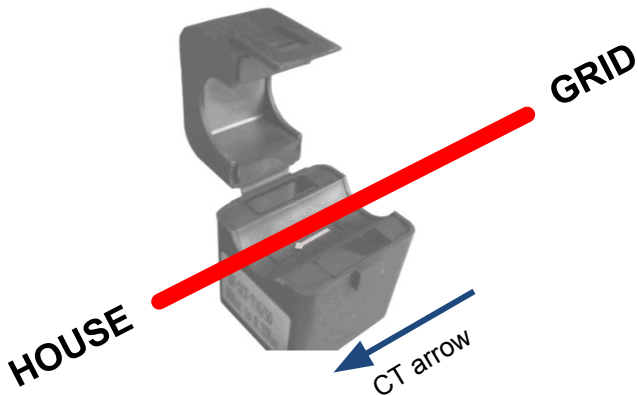
- The **House Mains** CT must be connected AFTER the Off Peak feed as shown. If this is not possible JP1 (inside the diverter) must be modified. Contact CATCH Power directly for the procedure required to do this.
- The **Load/Solar** CT can be connected to the House loads or the Solar. If connected to the Solar line the CT arrow must be pointing towards the Solar Panels.
- Multiple wires can be put through the **Load/Solar** CT, as long as all currents are in the same direction.

CONNECTING POWER CABLES



House Mains CT

This CT must be positioned so that it sees exactly the same things as the premises meter. It can be positioned just before or just after the meter.



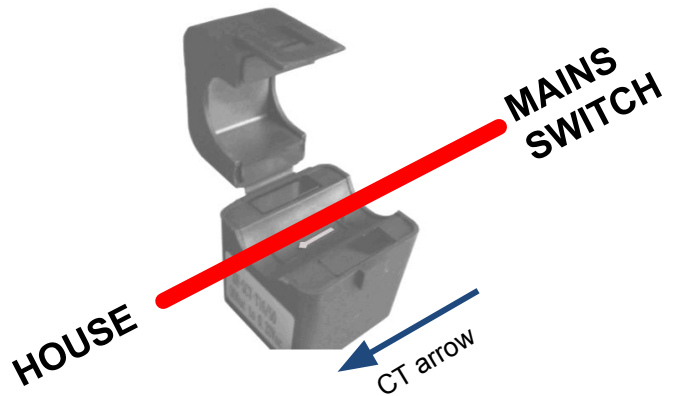
** CT arrow points in same direction as current flow

Picture shows the CT positioned just before the meter.

Load / Solar CT

The Load/Solar CT can be placed on:

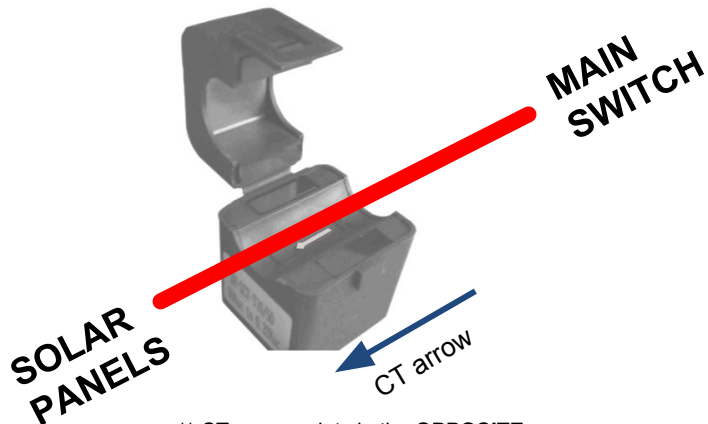
- ALL Loads in the premises - OR -
- On the Solar System circuit



** CT arrow points in same direction as current flow

CT on House Loads

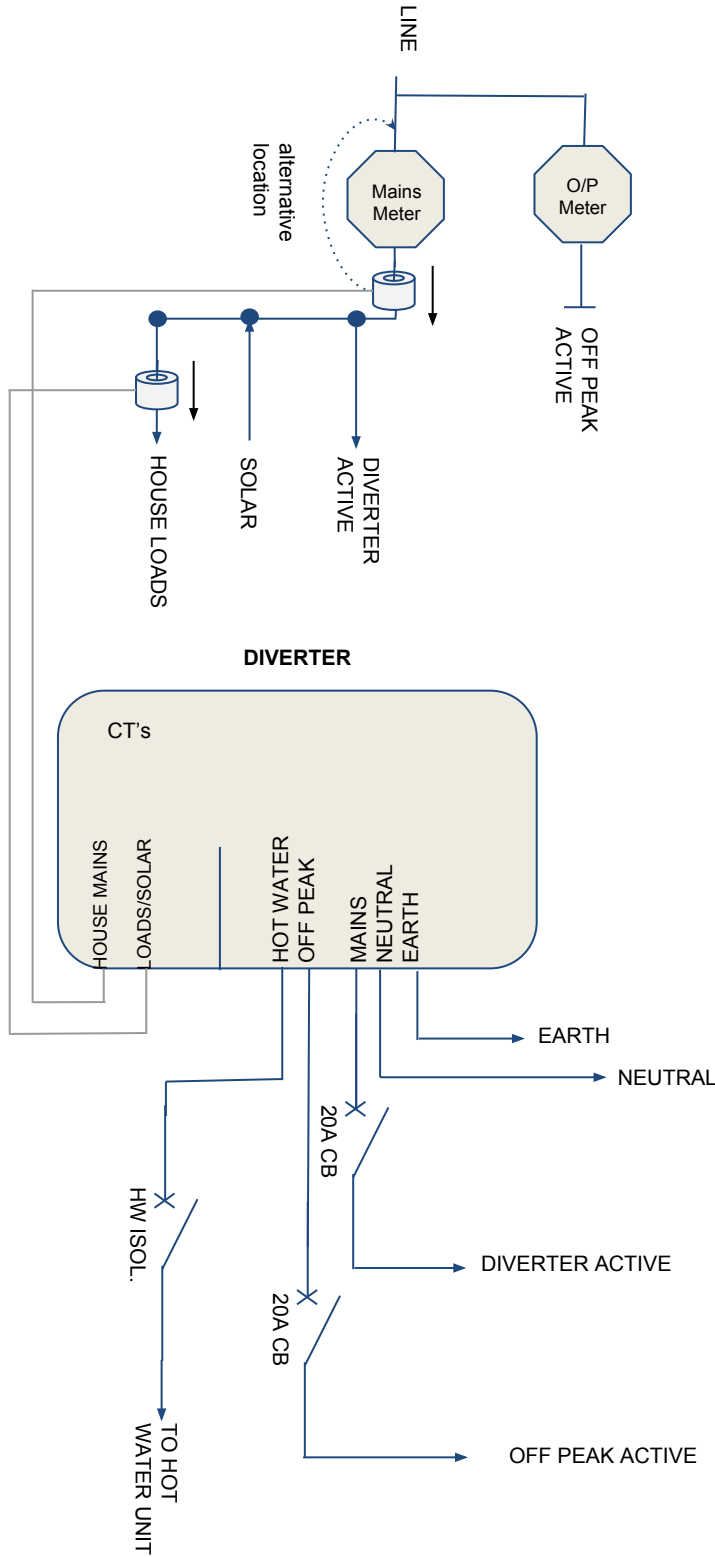
OR



** CT arrow points in the **OPPOSITE** direction to current flow

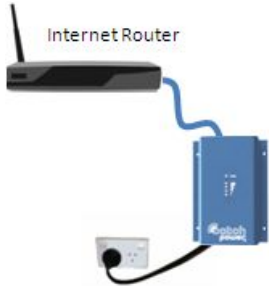
CT on Solar Circuit

Diverter Wiring Diagram




NOTE:
DIVERTER ACTIVE and **OFF PEAK ACTIVE** must be supplied from the same phase or the diverter will be damaged.

Communicator Installation



- The communicator must be plugged directly into a power socket. Do not use power boards of any type.
- Use the supplied ethernet cable to plug the communicator into a spare ethernet port on the premises router.
- The network must have a DHCP service running for the communicator to operate on the network.
- The Communicator and diverter must be installed on the same phase.

Understanding the LED's - Internet

Light will go solid when internet connectivity is established →  i/net

Note:
It can take up to 5min for the internet to stabilise. The light has to remain solid all the time for the internet to be considered established



Understanding the LED's - Communicator / Diverter

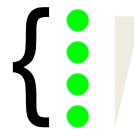
The Communicator and Diverter talk using the power circuit.

X BAD COMMS: The Diverter and Communicator cannot talk with each other

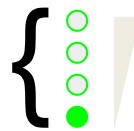


The 4 bottom lights will flash on and off in unison.

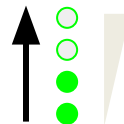
✓ GOOD COMMS:



All lights are on, and they stay on for more than 30sec.
Indicates hot water service has reached cut off.



Just the bottom light is on, and it stays on for more than 30sec.
Indicates not enough solar available to put into hot water at the moment.



Lights are coming on one at a time in an upward direction.
Indicates solar is being diverted to hot water.