



A **CATCH** Power device uses your existing solar installation to heat your hot water.

- **Don't give your excess solar away for free.**  
CATCH will take the excess solar and use it to heat your hot water.
- **Save up to \$400/yr**  
There are significant savings to be made by making better use of your solar electricity .
- **24x7 monitoring of your solar installation**  
CATCH is always working, and checking; if your solar develops a problem, CATCH will notify you before you even know there is a problem.

| TECHNICAL DATA                                 |         |
|--|---------|
| Max Hot Water Size                             | 4.8kW   |
| Max Load Current                               | 20A     |
| Max distance between Diverter and Communicator | 60m     |
| Powerline Communications frequency             | 100kHz  |
| AC Input Voltage                               | 230VAC  |
| AC Frequency                                   | 50Hz    |
| Weight   | <1kg    |
| Dimensions HxWxL (cm)                          |         |
| Diverter                                       | 15x7x12 |
| Communicator                                   | 15x7x10 |
| Warranty                                       | 5yrs    |
| Product is compliant with IEC60950             |         |

## How does it work?

CATCH comes in two parts, the Diverter and the Communicator.

- The Diverter gets installed into the Meter Box.
- The Diverter monitors power coming and going from your premises; when the Diverter senses power leaving it redirects that power to your hot water service.
- The Communicator plugs into a power point next to your internet router, then it connects into your router to get access to the internet.
- The Communicator passes information from our Cloud servers to the diverter and takes data from the diverter and sends it to our Cloud servers.
- The Communicator and Diverter use the existing premises electrical wiring to communicate, there are no extra wires needed.

CATCH Power devices use an adaptive learning algorithm to ensure optimum use of the generated solar. Our Cloud Servers take the data received from CATCH and combine it with weather forecasts; the combined data is used to optimise the use of your solar.

There are no complicated settings to deal with, just plug it in and let CATCH work the rest out.

## FREQUENTLY ASKED QUESTIONS

### Will CATCH work with gas or heat pump hot water?

No. CATCH utilises pulse width modulation to regulate power, as such it only works on resistive element hot water systems.

### Will my existing hot water tank work?

Yes. CATCH will work with your existing hot water element and thermostat. All that has to happen is to install CATCH.

### Do I need to change anything with my Solar array?

No. CATCH will work with your existing Solar array, CATCH gets installed into the meter box and all of the magic happens from there.

### Will CATCH work without an internet connection?

Yes. CATCH will still work without an internet connection, but you will not get the same level of savings. Green CATCH will be out in October, 2016.

### Who will arrange installation?

Once you purchase your CATCH we will contact you to arrange a suitable time to get the unit installed.

### How far apart can the diverter and communicator be?

That all depends on how much noise is present in the cabling of the house, but we have installed the devices up to 60m apart in very noisy environments and it all works.

### Does CATCH work on 3 phase solar?

CATCH is only capable of monitoring one of the 3 phases, so yes it will work but not as effectively as it could. A 3 phase version is coming soon.

### Is my Solar array big enough?

CATCH works on any size solar array, but the table below shows approximately how hot water will be heated from your solar.

| Solar Array Size | Amount Heated* |
|------------------|----------------|
| Up to 2kW        | 75%            |
| 2 – 3 kW         | 85% +          |
| 4+ kW            | 100%           |

\*The figures above are estimates only, there are many factors that may effect the amount of water heated

### I have Off Peak Hot water so I don't need CATCH..right?

It is true your hot water is cheaper than those paying full price, but with CATCH installed you will still make huge savings..in fact CATCH is so smart it will automatically know you have off peak and will use it when there is not enough solar to do the job.

### If I have CATCH can I get rid of my Off Peak meter?

Yes you can. Once CATCH is installed there is very little need to have off peak especially if you have a 3kW or larger solar array. By getting rid of your off peak meter and moving to Time of Use tariffs you may save much more than you think. You don't need to worry about your hot water heating on peak rates; CATCH is smart, it knows when the off peak periods are and if your solar cannot finish the heating CATCH will use off peak times to finish the job.

### Why does CATCH want an Internet connection?

The main reasons for the Internet connection are:

- The Advanced control algorithms are constantly looking at the weather for tomorrow in order to make the best decisions about how to heat your water today. We constantly communicate with the weather forecasters at your location to make this happen.
- One of the benefits of having an advance control algorithm heating your hot water is it can also be looking at your Solar system and letting you know if it thinks there is a problem. We use the Internet to send an email to our technical support team, and to you if CATCH finds a fault in your solar system.

Your local CATCH Installer Partner;