

# What is a solar power diverter





## Overview

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A solar diverter is a device used in conjunction with solar panels to optimise energy usage within a household. Its purpose is to direct excess electricity generated by the solar panels towards a specific load or appliance, usually to heat water, instead of exporting it back to the grid.

Solar power diverters are a practical, low-maintenance way to boost the efficiency of your solar panel system. By turning excess solar energy into hot water or powering appliances in your home, they help reduce energy waste, cut costs, and support a greener future.

A power diverter, or solar diverter, is a compact device that optimises energy usage by redirecting the excess electricity generated by our solar PV system. Rather than sending extra energy back to the grid, a diverter redirects it to the immersion heater.

A solar power diverter, also known as an energy diverter or an immersion controller, is a device designed to intelligently manage surplus solar energy produced by photovoltaic (PV) systems. What is a solar power diverter?

A solar power diverter, also known as a photovoltaic (PV) immersion controller, is a smart device used with solar panels and a hot water immersion heater. It maximises the use of free and abundant solar energy by directing excess electricity generated by the panels to the immersion heater to heat water, rather than exporting it to the grid.



## How much energy can a solar power diverter save?

A solar panel power diverter can significantly save your electricity bills by maximizing the self-consumption of solar energy and reducing grid dependence. On average, users can save anywhere from 20% to 50% on their electricity costs, making it a worthwhile investment in the long run. How Much Energy Can My Hot Water Cylinder Store?

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## Can a solar panel power diverter heat water?

It takes a lot of electricity to heat water, and this can result in high bills. Thankfully though, there's a solution: solar panel power diverters. A solar panel power diverter takes surplus solar electricity and sends it to your immersion heater. Heated water can then be stored for many hours until it's needed.

## Is a solar diverter a good fit for my home?

For a solar diverter to be a good fit for your home, you must have on-site power generation, like solar PV panels or a wind turbine – and your system should regularly produce more electricity than your household consumes, otherwise there won't be excess electricity available to divert to your water heater.

## Do you need a solar power diverter?

With the high upfront cost of solar panels, a solar power diverter makes sure you get the most out of your solar power, so you don't have to rely on the grid as much for heating water. But bear in mind that it's only useful if you've got an immersion heater. If you have no means of heating your water with electricity, a diverter will be useless.

## Are solar diverters compatible with all solar PV systems?

Solar diverters are compatible with most solar PV systems and are relatively straightforward to install. However, it's crucial to consult with our professionals to ensure that your solar system is suitable for a diverter and that it is installed correctly to maximise its benefits. All our solar panel installers are MCS-accredited.



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### How to Use an Eddi Energy Diverter

An Eddi energy diverter works by intelligently detecting surplus energy generated by your solar panels that would otherwise be exported back to the grid. The device diverts this surplus energy to heat your water or other ...

### [Harnessing the Power of the Sun: Understanding ...](#)

Solar power diverters are an ingenious technology that enhances the efficiency and effectiveness of your solar energy system. By diverting excess solar energy to power water heaters, heat pumps, or other ...



### [Solar Power Hot Water Timers Vs. Hot Water ...](#)

A solar diverter can assist a household to consume solar power in the most efficient way possible, and enables the home owners to save money on electricity bills. Consider these questions to determine if the benefits apply to ...

### MyEnergi Eddi 2.1

MyEnergi Eddi 2.1 Solar Power Diverter is an eco-smart energy management system which diverts your surplus self generated energy to a designated heating appliance, such as an



immersion heater, rather than sending it straight back to ...

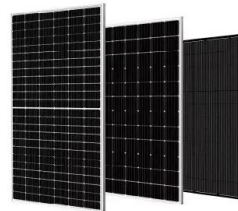


### **Solar diverters - alternative energy storage option for ...**

A solar diverter, or some may call it a solar power controller, solar power diverter or hot water diverter, diverts excess solar electricity to your hot water cylinder (in the exact same proportion as what would otherwise be exported to the grid).

### [Hot Water PV Diverter Comparison Table](#)

A PV hot water diverter is a device that enables you to use surplus electricity generated by your solar power system to heat water. Find out more about what a hot water diverter is, how it works and whether you should ...



### **Solar Batteries vs Power Diverters**

A solar power diverter, also called an immersion diverter, is a device which uses solar energy to generate hot water by powering the immersion. To do this it measures if your solar panels are currently generating excess ...



### Solar Diverters . Costs & Benefits 2025

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