

The Importance Of Overload Protection And How To Get It

As more homeowners electrify their homes - replacing gas appliances with electric alternatives - they often run into an unexpected issue: overloaded circuits leading to frequent power trips. The added strain on electrical loads can make daily life frustrating and even require costly switchboard upgrades to handle the extra demand.

Many homeowners don't realise that their existing electrical system wasn't designed for an all-electric home. When major appliances like heat pumps, induction cooktops, and electric hot water systems are running simultaneously, they can push your circuits beyond capacity, leading to inconvenient shutdowns. Upgrading your switchboard can be expensive, with costs often exceeding several thousand dollars.



This is where intelligent energy management becomes essential.

At ZECO Energy, we've developed the Marshall Blackbox, part of our Marshall family, to solve this problem efficiently. Marshall's Overload Control continuously monitors and evaluates non-essential loads, automatically adjusting energy distribution in real time. This prevents overloads and switchboard trips without the need for expensive infrastructure upgrades, ensuring system stability, safety, and seamless operation.

Unlike traditional circuit breakers that shut everything down indiscriminately, Marshall prioritises your essential loads, allowing your home to keep running smoothly. For example, if your electric stove and heat pump are running at the same time, Marshall can temporarily reduce power to a non-essential load, like a pool pump or EV charger, to prevent an overload. Once the strain eases, everything resumes normal operation automatically.

With Marshall at the helm, you can enjoy a smarter, more resilient home energy system, allowing you to electrify with confidence. Learn more about how overload protection can future-proof your home's energy use and reduce costly disruptions.



“We will make renewable energy accessible to all.”