TESLA

POWERWALL

A SELF-POWERED HOME

Powerwall is a battery that stores solar energy so you can use it on demand and self-power your home or business to reduce your reliance on grid electricity. In the event of a grid outage, Powerwall automatically provides backup power and easily integrates with solar to ensure you're home or business is powered 24/7. With Powerwall, you are assured of energy security and a clean energy lifestyle.

In this Guide You'll Discover

- The Benefits Of Powerwall
- Installation Overview
- Next Steps

BENEFITS OF YOUR POWERWALL

Powerwall lets you store solar energy generated during the day and use it to power your home at night. It can also back up your home in the event of a utility power outage. Powerwall is compact, safe and includes a built-in battery inverter, which provides easier integration and over-the-air updates for new features and functions.

Self-Powered Home

Use solar and Powerwall to reduce reliance on the grid and run your home off solar day and night

Backup Power

Protect your home from a power outage with seamless and reliable backup power

Time-Based Control

Reduce your electricity bill, if your utility offers a time-of-use rate plan

Home Energy Control

Manage and control your home energy use in real-time with the Tesla mobile app

SELF-POWER YOUR HOME WITH SOLAR AND POWERWALL

A self-powered home is one that runs off solar and Powerwall, which gives you the ability to own your energy and reduce your reliance on the grid. With Powerwall you can use more of your solar by storing the excess solar energy and using it at night, doubling the usefulness of your solar panels.

By combining solar and Powerwall, you can extend your hours of backup power. Solar panels, when installed by themselves, are required to shut down during a utility power outage for grid safety. However, when paired with Powerwall, solar panels can continue to operate during an outage, extending the hours of backup power.

Tesla Mobile App

The Tesla mobile app allows you to have full visibility into your self-powered home. You can monitor your home solar generation, battery power flow, and household consumption in real-time from anywhere.

AUTOMATICALLY BACK UP YOUR HOME DURING AN OUTAGE

Secure your home from a power outage with reliable backup power. Powerwall is able to detect a grid outage, disconnect from the grid and bring power back to your home in a fraction of a second. That is over 100x faster than typical standby generators, and fast enough to keep your appliances running without interruption. You will not have to reset your clocks or your alarm.
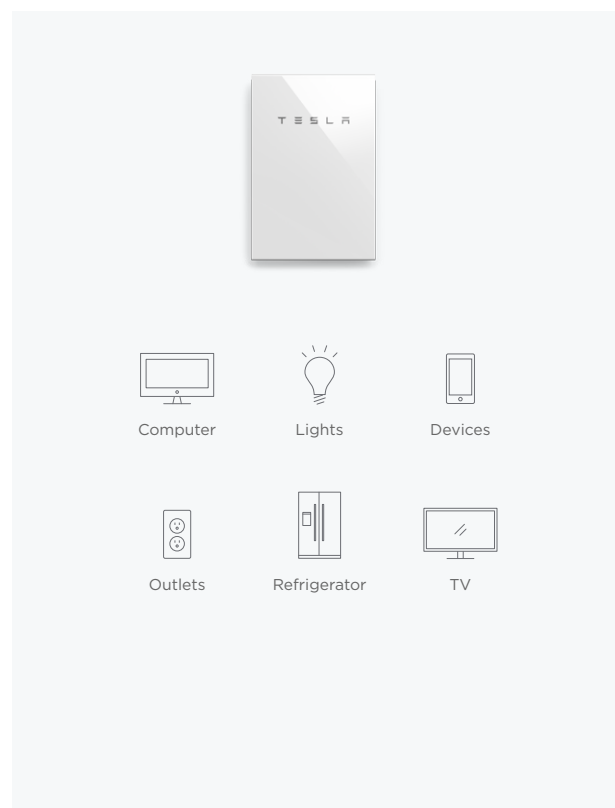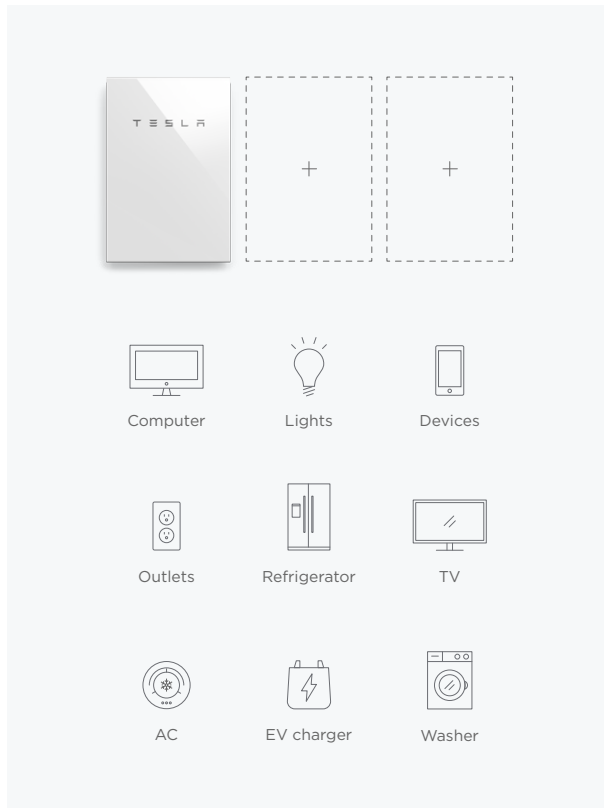
Our goal is to provide backup power to your entire home. However, depending on the type of appliances at your home, we may recommend an essential load backup instead of whole home backup.

Whole Home Backup

Your entire home is backed up by our recommended number of Powerwalls. In some cases, an upgrade to your electrical panel may be needed and we will advise you if this is the case. You can add more Powerwalls to keep your house operational longer during an outage.
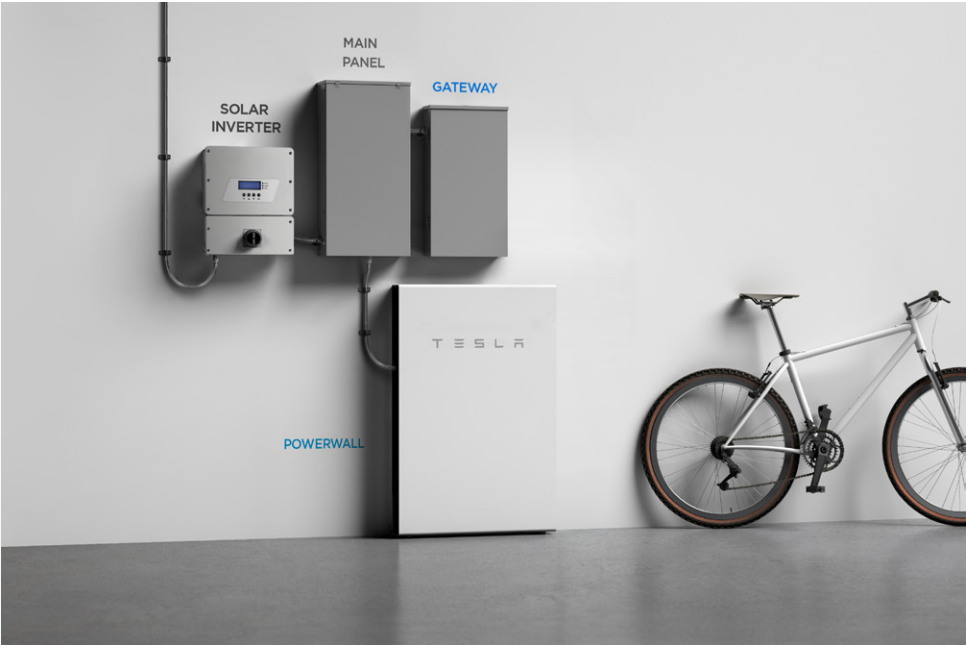
Essential Load Backup

If your electrical situation doesn't allow for a whole home backup, we can backup select essential loads. Since lights and outlets require less energy, a single Powerwall will typically be sufficient and a secondary electrical panel is usually required.

Computer   Lights   Devices

Outlets   Refrigerator   TV

AC   EV charger   Washer

Computer   Lights   Devices

Outlets   Refrigerator   TV

POWERWALL INSTALLATION

The Powerwall system consists of Powerwall and an additional supporting component called the Backup Gateway. Powerwall and the Gateway are connected to your home's main electrical panel. The Gateway has built-in intelligence and communications, which feeds into the Tesla app to give you full visibility into your home energy usage. Depending on your choice of whole home or partial home backup, your main electrical panel may need to be upgraded.

Whole Home Backup

Essential Load Backup

GREY: Existing equipment
BLUE: New equipment being installed