Experience Energy Independence

Power Everything

Prepare your home for a clean energy future with greater energy security, self-sufficiency and savings.

1 Solar Panels

Convert energy from the sun into electricity that can power everything in your home, from appliances to electric vehicles

2 Powerwall

Store the excess energy your system generates for use at night or during an outage for 24/7 backup protection and energy savings during peak hours

3 Wall Connector

Charge electric vehicles at home with multiple power settings and up to 71 km of range per hour

4 Tesla App

Monitor and manage all the products in your Tesla ecosystem in one place and see how your energy flows

Product Overview

Power your home and electric vehicle with clean energy and reduce your reliance on the grid.

With solar, you can generate more energy than you need. By combining solar with Powerwall, a rechargeable home battery, you can store excess energy for use anytime—even during a power outage.

Monitor the clean energy you produce and manage your system through the Tesla app with 24/7 remote access.

Backup Protection

Powerwall is a battery that stores energy, detects outages and automatically becomes your home's energy source when the grid goes down. Unlike generators, Powerwall keeps your lights on and phones charged without upkeep, fuel or noise. Pair with solar and recharge with sunlight to keep your appliances running for days.

Powerwall can detect a power cut, disconnect from the grid and automatically restore power to your home.

With Powerwalls 5 kW continuous power output, your home or business keeps running with little disruption.

To maximise your Powerwall energy supply during a grid outage, we recommend being aware of which appliances may be energy-intensive and should be used sparingly.

Standard Appliances

Use Normally

- Wifi
- Refrigerator
- Phone
- Lights
- Television
- Microwave

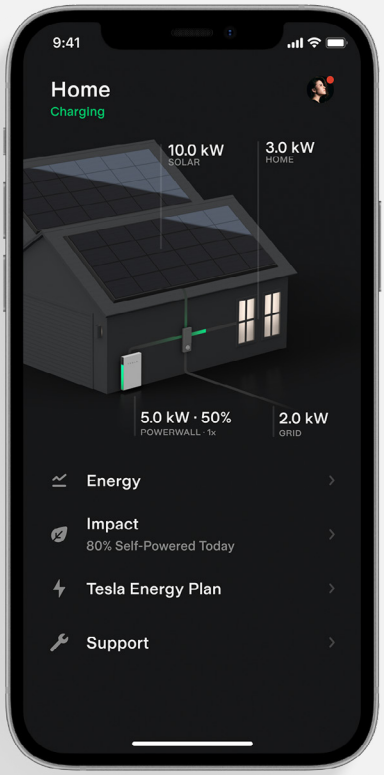
Energy-Intensive Appliances

Use Sparingly

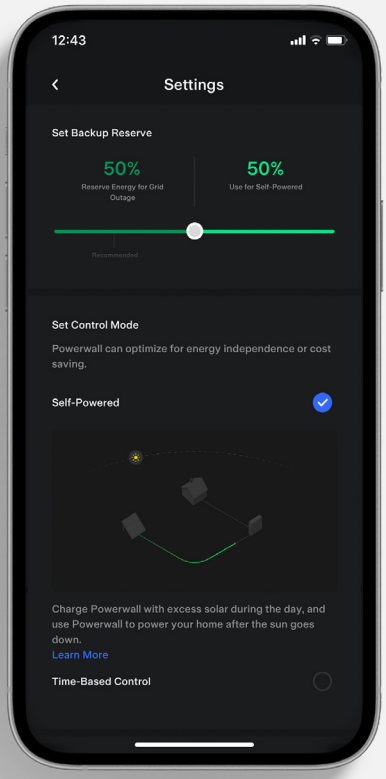
- Dishwasher
- Washer/Dryer
- Pool Pump
- A/C
- Heating incl. Under Floor
- Car Charging

24/7 Control

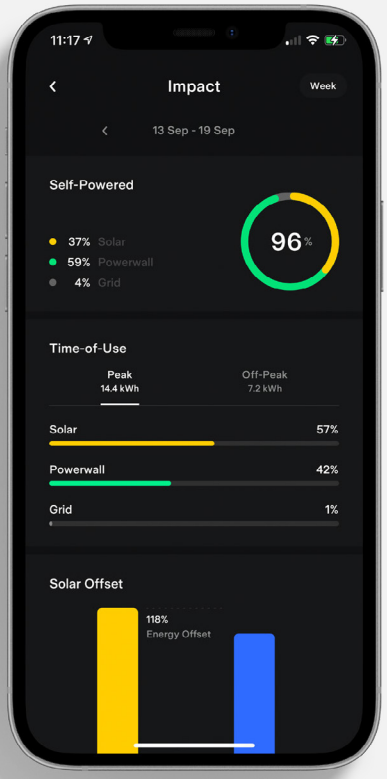
Monitor your energy production and consumption in real time and optimise your system for energy independence, outage protection and savings.



Manage and track your energy with instant notifications, simplified graphs and easy navigation



Prepare your system for outages and recharge with sunlight to keep your appliances running



Learn how your system uses energy on a daily, weekly or monthly basis

Compact & Simple

With easy installation and no required maintenance, Powerwall is a completely automated system that is compatible with any home.

Liquid thermal controls, independent fuses and touch-safe technology deliver maximum battery life and added safety.

Specifications

Usable Capacity
13.5 kWh

Scalable
Up to 10 Powerwalls

Efficiency
90% Round-trip

Weight
114 kg

Warranty
10 Years

Continuous Power
5 kW

Operating Temperature
-20°C to 50°C

Peak Power
7 kW

Gateway 2
380mm x 584mm
11.4 kg

POWERWALL

Tesla Powerwall 2 is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, load shifting, backup, and off-grid use.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realise the benefits of reliable, clean power.

PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	208 V, 220 V, 230 V, 100/200 V, 120/240 V
Feed-In Type	Single Phase
Grid Frequency	50 Hz
Total Energy[1]	14 kWh
Usable Energy[1]	13.5 kWh
Real Power, max continuous[2]	5 kW (charge and discharge)
Apparent Power, max continuous[2]	5 kVA (charge and discharge)
Imbalance for Single-Phase Loads	100%
Power Factor Output Range	+/– 1.0 adjustable
Depth of Discharge	100%
Internal Battery DC Voltage	50 V
Round Trip Efficiency[1,3]	> 90%
Warranty	10 years

[1]Values provided for 25°C, 3.3 kW charge/discharge power.
[2]Values region-dependent.
[3]AC to battery to AC, at beginning of life.

COMPLIANCE INFORMATION

Safety	UL 1642, UL 1741, UL 1973, UL 9540, UN 38.3, IEC 62109-1, IEC 62619, CSA C22.2.107.1
Grid Standards	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003, EN 61000 Class B
Environmental	RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, 2006/66/EC
Seismic	AC156, IEEE 693-2005 (high)

MECHANICAL SPECIFICATIONS

Dimensions	1150 mm x 755 mm x 155 mm
Weight	125 kg
Mounting options	Floor or wall mount

ENVIRONMENTAL SPECIFICATIONS

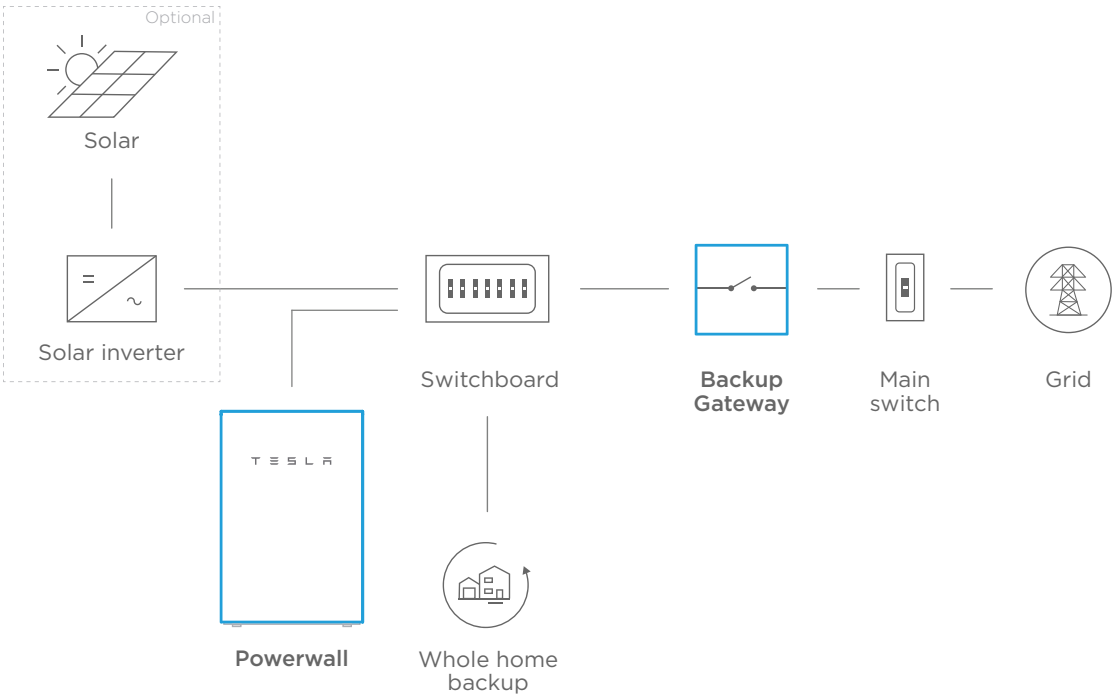
Operating Temperature	–20°C to 50°C
Operating Humidity (RH)	Up to 100%, condensing
Maximum Altitude	3000 m
Environment	Indoor and outdoor rated
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Noise Level @ 1m	< 40 dBA at 30°C

BACKUP GATEWAY SPECIFICATIONS

Dimensions	691 mm x 378 mm x 129 mm
Weight	16.4 kg
Disconnect Current	200 A
Ingress Rating	IP44
User Interface	Tesla App
Connectivity	Wi-Fi, Ethernet, 3G[4]
AC Meter	Revenue grade
Operating Modes	Support for solar self-consumption, load shifting, backup, and off-grid use
Backup Operation	Automatic disconnect for seamless backup transition
Modularity	Supports up to 10 AC-coupled Powerwalls

TYPICAL SYSTEM LAYOUTS

WHOLE HOME BACKUP



PARTIAL HOME BACKUP