

SELF-CONSUMPTION AND BACKUP SOLUTIONS

from Ecoficiency

WITH POWERWALL BATTERY STORAGE

Self-Consumption Systems

The Powerwall may be used to increase the amount of solar energy a home directly consumes. This function commonly involves charging the battery during times when solar production exceeds local load, and discharging the battery when local loads exceed solar production.

Optionally, this scenario can be designed to limit or prevent export of solar energy to the grid.

Backup Systems

The Powerwall may be used to provide backup power to a home or small business. The backup function can be tied to solar for multiple charge/recharge cycles during the outage, or offered as stand-alone, in which case it provides one full discharge during an outage.

The Powerwall does not provide Uninterrupted Power Supply (UPS) level backup.



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POWERWALL
TESLA HOME BATTERY



ecoficiency

Daily Powerwall Home Battery



The Daily Powerwall is a wall-mounted battery pack intended for residential or commercial use. It is a rechargeable lithium-ion battery pack designed to provide energy storage for home backup power, load shifting, solar self-consumption, or any high throughput applications. The battery pack's electrical interface is provided by an isolated bi-directional DC/DC converter intended to provide a constant power DC link for integration with solar grid-tie DC/AC inverters.

Electrical Specifications

Power, continuous & peak	3.3 kW
Energy*	6.4 kWh
DC Voltage	350V-450V
DC Current, continuous & peak	9.5 A
Insulation Coordination	Overvoltage Category III on a 277/480V system
Round Trip Efficiency (Beginning of Life)*	92.5% (for a 400V-450V DC bus)

*Values provided for 25°C, 2kW charge/discharge power

Environmental Specifications

Operating Temperature	-20°C to 50°C Humidity: <95% condensing
Storage Conditions:	
<24 hours	-30°C to 60°C, <95% RH
<1 month	-20°C to 45°C, <95% RH
<12 months	-20°C to 30°C, <70% RH non-condensing, SOE: 50% initial
Altitude	3000m
Impact Rating	IK09
Ingress Rating	IP35 & NEMA 3R (full Pack) IP67 (battery Pod)

Mechanical Specifications

Dimensions	L: 1300 mm
	W: 860 mm
	D: 180 mm
Weight	95 kg

