

POWERWALL

The Tesla Powerwall is a wall-mounted battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, load shifting, backup power, or any high-throughput application. Powerwall's electrical interface is provided by an internal isolated bi-directional DC/DC converter controlling the charge and discharge of the battery for integration with utility-interactive inverters.

Powerwall achieves unprecedented levels of safety in home energy storage. It is a factory assembled, fully certified unit that contains no user-serviceable parts. The microprocessor controlled DC/DC converter is electrically isolated from the internal battery and eliminates user access to live terminals during installation or service.

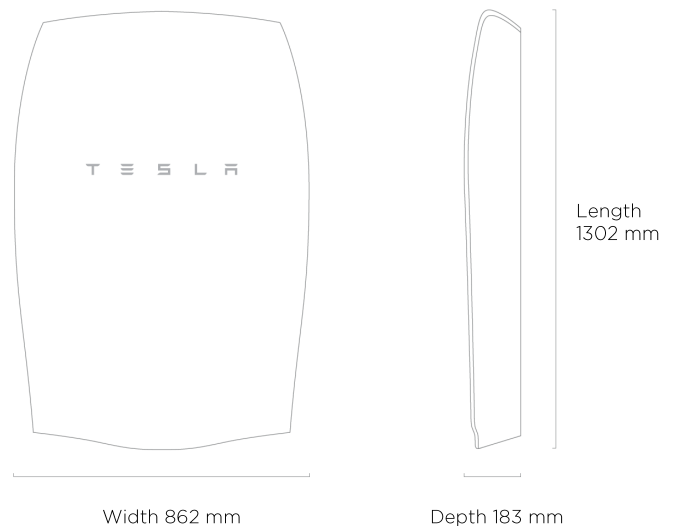


ELECTRICAL SPECIFICATIONS

Power, continuous and peak	3.3 kW
Energy ¹	6.4 kWh
Internal Battery Voltage	< 50 VDC
System Operating Voltage	350 V–450 V
Voltage in Off State	0 VDC
Current	9.5 ADC
Round Trip Efficiency ¹	92.5 % (for a 400V-450 VDC bus)
Depth of Discharge	100%
Equivalent Cycles ²	Equivalent to 1 full cycle per day for 10 years

¹ Values provided for 25 °C, 2 kW charge/discharge power.

² User is not penalized for partial cycles. Two partial 50% cycles are equivalent to one full cycle.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C
Relative Humidity	<95% non-condensing
Maximum Altitude	3000 m
Impact Rating	IK09
Ingress Rating	IP35 and NEMA 3R (Powerwall) IP67 (Battery Pod)

MECHANICAL SPECIFICATIONS

Dimensions	1302 mm x 862 mm x 183 mm
Weight	97 kg

CERTIFICATIONS

Powerwall	UL 9540, AC156 seismic certification, IEEE 693-2005 seismic certification, FCC Part 15 Class B, IEC/EN 61000 Class B
Battery/Pod	UL 1642, UL 1741, UL 1973, UN 38.3, REACH, Battery Directive 2006/66/EC, RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, IEC 62109-1, IEC 62619, CSA C22.2.107.1