

# POWERWALL

Tesla Powerwall 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, time-based control, and backup.

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

<b>AC Voltage (Nominal)</b>	230 V
<b>Feed-In Type</b>	Single Phase
<b>Grid Frequency</b>	50 Hz
<b>Total Energy<sup>1</sup></b>	14 kWh
<b>Usable Energy<sup>1</sup></b>	13.5 kWh
<b>Real Power, max continuous</b>	5 kW (charge and discharge)
<b>Apparent Power, max continuous</b>	5 kVA (charge and discharge)
<b>Maximum Supply Fault Current</b>	10 kA
<b>Maximum Output Fault Current</b>	32 A
<b>Power Factor Output Range</b>	+/- 1.0 adjustable
<b>Internal Battery DC Voltage</b>	50 V
<b>Round Trip Efficiency<sup>1,2</sup></b>	90%
<b>Warranty</b>	10 years

<sup>1</sup>Values provided for 25°C, 3.3 kW charge/discharge power.

<sup>2</sup>AC to battery to AC, at beginning of life.

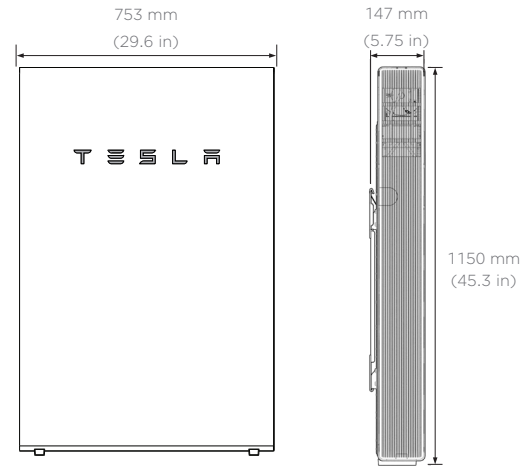
## COMPLIANCE INFORMATION

<b>Certifications</b>	IEC 62109-1, IEC 62109-2, IEC 62619, UN 38.3
<b>Grid Connection</b>	Worldwide Compatibility
<b>Emissions</b>	IEC 61000-6-1, IEC 61000-6-3
<b>Environmental</b>	RoHS Directive 2011/65/EU, WEEE Directive 2012/19/EU, Battery Directive 2006/66/EC, REACH Regulation
<b>Seismic</b>	AC156, IEEE 693-2005 (high)

## MECHANICAL SPECIFICATIONS

<b>Dimensions<sup>3</sup></b>	1150 mm x 753 mm x 147 mm
<b>Weight</b>	114 kg
<b>Mounting options</b>	Floor or wall mount

<sup>3</sup>Dimensions differ slightly if manufactured before March 2019. Contact Tesla for additional information.

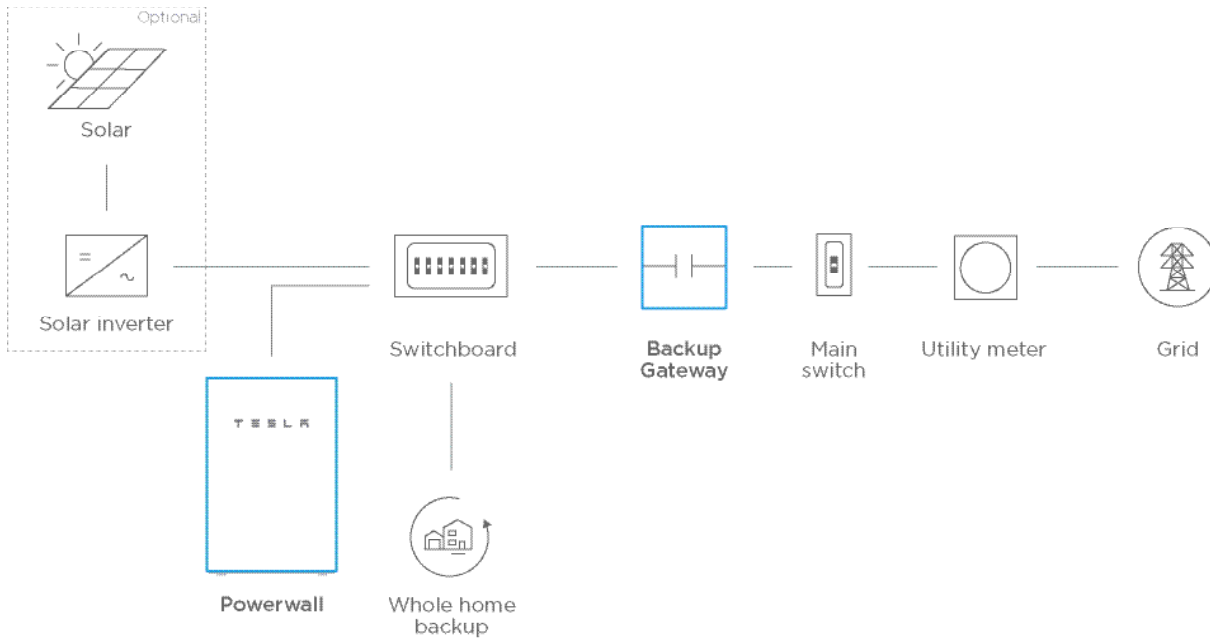


## ENVIRONMENTAL SPECIFICATIONS

<b>Operating Temperature</b>	-20°C to 50°C
<b>Recommended Temperature</b>	0°C to 30°C
<b>Operating Humidity (RH)</b>	Up to 100%, condensing
<b>Storage Conditions</b>	-20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
<b>Maximum Elevation</b>	3000 m
<b>Environment</b>	Indoor and outdoor rated
<b>Ingress Rating</b>	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
<b>Wet Location Rating</b>	Yes
<b>Noise Level @ 1m</b>	< 40 dBA at 30°C

# TYPICAL SYSTEM LAYOUTS

## WHOLE HOME BACKUP



## PARTIAL HOME BACKUP

