

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 realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

| | |
|---|--------------------------------|
| AC Voltage (Nominal) | 120/240 V |
| Feed-In Type | Split Phase |
| Grid Frequency | 60 Hz |
| Total Energy | 14 kWh |
| Usable Energy | 13.5 kWh |
| Real Power, max continuous | 5 kW (charge and discharge) |
| Real Power, peak (10s, off-grid/backup) | 7 kW (charge and discharge) |
| Apparent Power, max continuous | 5.8 kVA (charge and discharge) |
| Apparent Power, peak (10s, off-grid/backup) | 7.2 kVA (charge and discharge) |
| Maximum Supply Fault Current | 10 kA |
| Maximum Output Fault Current | 32 A |
| Overcurrent Protection Device | 30 A |
| Imbalance for Split-Phase Loads | 100% |
| Power Factor Output Range | +/- 1.0 adjustable |
| Power Factor Range (full-rated power) | +/- 0.85 |
| Internal Battery DC Voltage | 50 V |
| Round Trip Efficiency ^{1,3} | 90% |
| Warranty | 10 years |

¹Values provided for 25°C (77°F), 3.3 kW charge/discharge power.

²In Backup mode, grid charge power is limited to 3.3 kW.

³AC to battery to AC, at beginning of life.

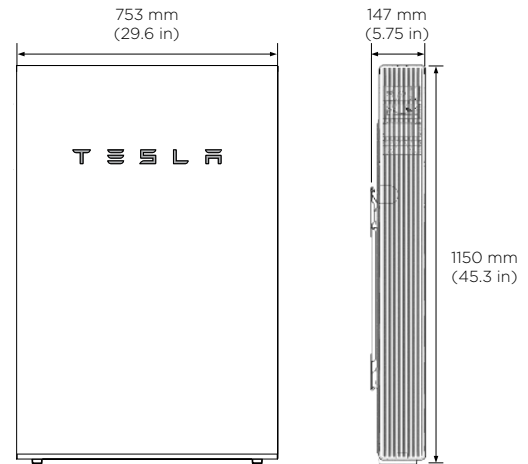
COMPLIANCE INFORMATION

| | |
|-----------------|--|
| Certifications | UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3 |
| Grid Connection | Worldwide Compatibility |
| Emissions | FCC Part 15 Class B, ICES 003 |
| Environmental | RoHS Directive 2011/65/EU |
| Seismic | AC156, IEEE 693-2005 (high) |

MECHANICAL SPECIFICATIONS

| | |
|-------------------------|--|
| Dimensions ¹ | 1150 mm x 755 mm x 147 mm (45.3 in x 29.6 in x 5.75 in) |
| Weight ¹ | 114 kg (251.3 lbs) |
| Mounting options | Floor or wall mount |

¹Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.

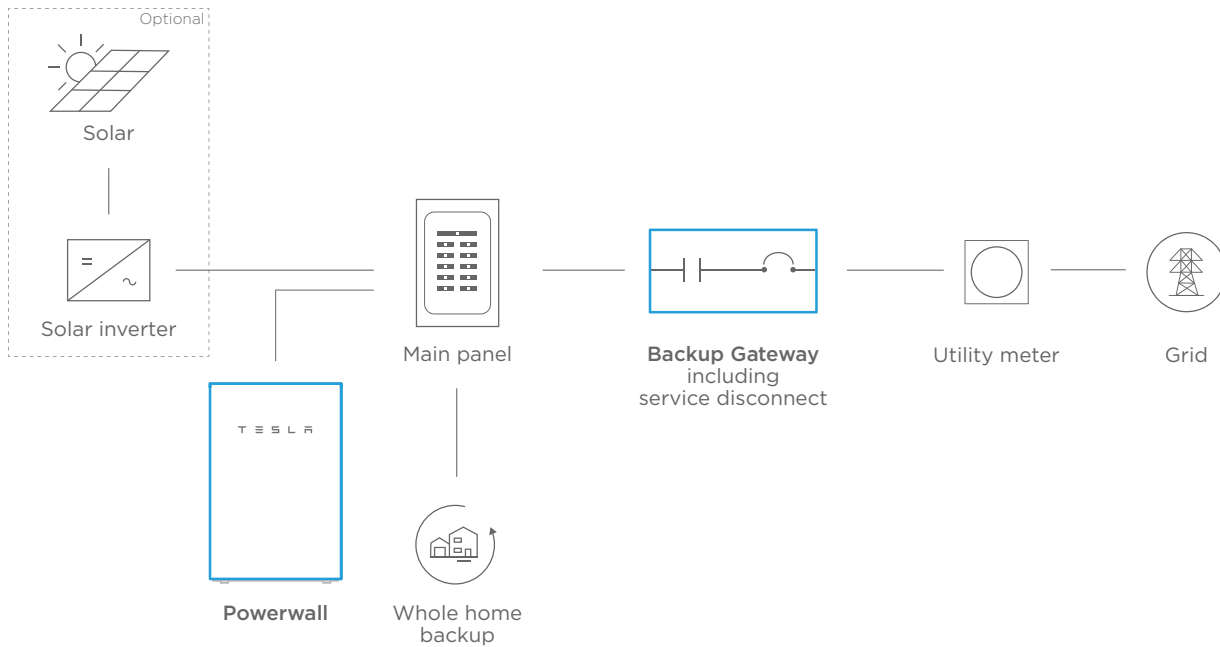


ENVIRONMENTAL SPECIFICATIONS

| | |
|-------------------------|--|
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
| Recommended Temperature | 0°C to 30°C (32°F to 86°F) |
| Operating Humidity (RH) | Up to 100%, condensing |
| Storage Conditions | -20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial |
| Maximum Elevation | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Type | NEMA 3R |
| Ingress Rating | IP67 (Battery & Power Electronics) IP56 (Wiring Compartment) |
| Wet Location Rating | Yes |
| Noise Level @ 1m | < 40 dBA at 30°C (86°F) |

TYPICAL SYSTEM LAYOUTS

WHOLE HOME BACKUP



PARTIAL HOME BACKUP

