



POWERWALL 2 AC

The 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, load shifting and backup power.

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) | 208 V, 220 V, 230 V, 277 V, 100/200 V, 120/240 V |
| Feed-In Type | Single & Split-Phase |
| Grid Frequency | 50 and 60 Hz |
| AC Energy ¹ | 13.2 kWh |
| Real Power, max continuous ² | 5 kW (charge and discharge) |
| Real Power, peak (10s) ² | 7 kW (discharge only) |
| Apparent Power, max continuous ² | 5.8 kVA (charge and discharge) |
| Apparent Power, peak (10s) ² | 7.2 kVA (discharge only) |
| Imbalance for Single-Phase Loads | 100% |
| Power Factor Output Range | +/- 1.0 adjustable |
| Power Factor (full-rated power) | +/- 0.85 |
| Depth of Discharge | 100% |
| Internal Battery DC Voltage | 50 V |
| Round Trip Efficiency ^{1,3} | 89.0% |
| Warranty | 10 years |

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

²Values region-dependent.

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

ENERGY GATEWAY SPECIFICATIONS

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|------------------|-------------------------------------------|
| User Interface | Tesla App |
| Connectivity | Wi-Fi, Ethernet, 3G |
| AC Meter | Revenue grade |
| Operating Modes | Support for wide range of usage scenarios |
| Backup Operation | Optional automatic disconnect switch |
| Modularity | Supports up to 9 AC-coupled Powerwalls |

ENVIRONMENTAL SPECIFICATIONS

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|-------------------------|-----------------------------------------------------|
| Operating Temperature | -20°C to 50°C (-4°F to 122°F) |
| Storage Temperature | -30°C to 60°C (-22°F to 140°F) |
| Operating Humidity (RH) | Up to 100%, condensing |
| Maximum Altitude | 3000 m (9843 ft) |
| Environment | Indoor and outdoor rated |
| Enclosure Type | NEMA 3R |
| Ingress Rating | IP67 (Battery & Power Electronics) IP56 (Wiring) |
| Noise Level @ 1m | <40 dBA at 30°C (86°F) |

MECHANICAL SPECIFICATIONS

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|------------------|-----------------------------------------------------------|
| Dimensions | 1150 mm x 755 mm x 155 mm (45.3 in x 29.7 in x 6.1 in) |
| Weight | 122 kg (269 lbs) |
| Mounting options | Floor or wall mount |

COMPLIANCE INFORMATION

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|----------------|--------------------------------------------------------------------------------------------|
| 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) |

TYPICAL SYSTEM LAYOUT

