

SOLAR POWER SYSTEMS



TESLA BATTERY STORAGE

POWERWALL 3



Tesla Powerwall 3 is a fully-integrated DC inverter and battery system perfect for residential and light commercial use. Utilising advanced rechargeable lithium-ion battery technology, it offers robust energy storage solutions, enhancing solar self-consumption, load shifting, and backup power capabilities.

Solahart Tesla Powerwall Certified Installers provide customised solar-plus-battery solutions, enabling you to capture and store the abundant power of the sun. This reduces reliance on fossil fuels and promotes a sustainable energy future.

With Powerwall 3, you can store solar energy generated during the day for use anytime. During daylight hours, the sun shines on your solar panels, charging your battery. At night, your home draws electricity from your battery, powering your home with clean and sustainable energy.

How you benefit:



HIGH EFFICIENCY

Captures and stores excess solar energy for use at night



FLEXIBLE DESIGN

Easy system expansion designed to allow stacking of up to 4 units as your household energy needs increase.



SAFE OPERATION

Protect your home from a power outage with solar power and Powerwall.



INNOVATIVE

DC inverter and battery solution all in one.



LESS GRID RELIANCE

Combining Powerwall 3 and solar power you can lower your energy bills by maximising the use of your own solar generation.

TECHNICAL DATA



Model	Powerwall 3 - DC Inverter/Battery
Performance Specifications	
AC Voltage (Nominal)	230 V
Feed-in type	Single phase
Grid frequency	50 Hz
Total energy ⁽¹⁾	14 kWh
Usable energy ⁽¹⁾	13.5 kWh
Real power, Maximum Continuous Discharge Power	5 kW (Charge and discharge) Configurable up to 11.04 kW
Apparent power, Maximum Continuous Discharge Power	5 kVA (Charge and discharge) 5 kW
Maximum supply fault current	10 kA
Maximum Continuous AC Output Current (Power at 230 V)	21.7 A (5 kW), 43.5 A (10 kW), 48 A (11.04 kW)
Power factor output range	+ / - adjustable
Power Scalability	Up to 4 Powerwall 3 units supported
Round trip efficiency	89 %
Tesla Warranty*	10 years
Mechanical Specifications	
Dimensions	1099 x 609 x 193 mm
Weight	130 kg
Mounting options	Floor or wall mount
Environmental Specifications	
Operating temperature	-20 to 50°C
Operating humidity	Up to 100%, condensing
Storage conditions	-20 to 30°C Up to 95 % RH, non-condensing State of Energy (SOE): 25 % initial
Maximum elevation	3000 m
Environment	Indoor / Outdoor rated
Ingress rating (Battery and power electronics)	IP67
Ingress rating (Wiring compartment)	IP55
Pollution Rating	PD3
Noise level @ 1 m	< 50 db(A) typical, < 62 db(A) maximum
Noise level @ 1 m	
Certification	IEC 61000-6-1: 2016, IEC 61000-6-3: 2020, IEC 62477-1: 2022, IEC 62109-1: 2010, IEC 62109-2: 2011, IEC 62933-5-2: 2020, IEC 62619: 2022, UL 1973, UL 9540A, AS 4777.2
Grid connection	Australia and New Zealand
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU REACH Regulation EC 1907/2006
Seismic	AC156, IEEE 693-2005 (high)

Please visit Tesla website for the latest certificates.

All pictures shown are for reference only. Actual appearance may vary.

* Refer to Tesla Warranty for details of the product warranty and Solahart Owner's Guide & Installation Instructions for installation details.

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