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 uickly realize the benefits of reliable, clean power.



PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
rid Fre uency	60 Hz
Total Energy 1	14 kWh
Usable Energy ¹	13.5 kWh
Real Power, max continuous 2	5 kW (charge and discharge)
Real Power, peak (10s, off-grid/backup) 2	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 utput Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor utput 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

*Values provided for 25°C (77°F), 3.3 kW charge/discharge power. *In Backup mode, grid charge power is limited to 3.3 kW. *AC to battery to AC, at beginning of life.

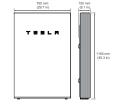
COMPLIANCE INFORMATION

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

TESLA

MECHANICAL SPECIFICATIONS

Dimensions	1150 mm x 755 mm x 155 mm (45,3 in x 29,7 in x 6,1 in)
Weight	125 kg (276 lbs)
Mounting options	Floor or wall mount



ENVIRONMENTAL SPECIFICATIONS

ptimum Temperature	0°C to 30°C (32°F to 86°F)
perating 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)

POWERWALL

Backup Gateway

The Backup Gateway for Tesla Powerwall provides energy manage and monitoring for solar self-consumption, time-based control, and

The Backup Gateway controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a circuit breaker, the Backup Gateway can

The Backup Gateway communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla ann

PERFORMANCE SPECIFICATIONS



MECHANICAL SPECIFICATIONS

ENVIRONMENTAL SPECIFICATIONS

AC Voltage (Nominal)	230 V, 120/240 V
Feed-In Type	Single & Split Phase
Grid Frequency	50 and 60 Hz
Disconnect Current	200 A
Maximum Input Short Circuit Current	10 kA
Overcurrent Protection Device 1	100-200 A; Service Entrance Rated
Overvoltage Category	Category IV
AC Meter	Revenue grade (+/- 1%)
Connectivity	Ethernet, Cellular (3G), Wi-Fi
User Interface	Tesla App
Operating Modes	Support for solar self-consumption, time-based control, and backup
Backup Operation	Automatic disconnect for seamless backup transition
Modularity	Supports up to 10 AC-coupled Powerwalls
Warranty	10 years

urrent	10 kA		378 mm	129 mm
	100-200 A; Service Entrance Rated		(14.9 in)	(5.1 in)
	Category IV	7 7		'n'
	Revenue grade (+/- 1%)	٦		
	Ethernet, Cellular (3G), Wi-Fi			
	Tesla App	1		
	Support for solar self-consumption, time-based control, and backup	740 mm		
	Automatic disconnect for seamless backup transition	(29.1 in)		
	Supports up to 10 AC-coupled Powerwalls			
	10 years	9		
illation at serv setwork opera	ice entrance. tor service coverage and signal strength.			Ш

COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, IEC 62109-1, CSA C22.2:107.1	
Grid Connection	Worldwide Compatibility	
Emissions	FCC Part 15 Class B, ICES 003, IEC 61000-6-3, EN 55024, EN 301489-1, EN 301489-7, EN 301489-17	
Environmental	RoHS Directive 2011/85/EU, WEEE Directive 2012/19/EU, Battery Directive 2006/66/EC REACH Regulation	
Seismic	AC156, IEEE 693-2005 (high)	

To learn more about Enphase offerings, visitenphase.com

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⊖ ENPHASE.

CODE SUMMARY STATE BUILDING ELECTRICAL FLORIDA 2020 FBC, 7TH 2017 NEC

REVISIONS:

ELECTRICAL DIAGRAM & CALCULATION

ANTONIO 51st Street SW ples, FL 34116 Project: DE LA ROSA,

801 SE 6th Ave. Suite 206 Delray Beach, FL 33483 (800) 530-9597 CVC56962





MANUEL E. SIQUES, P.E.
FLORIDA ENINEERS (# 2023
8331 SW 17TH TERRACE (# 2023
MAM, FL 3244 A. 33144
MAM, FL 3244 A. 33144
TEL (305) 584-776
I CERTIFY THAT THIS PV SYSTEM
FULLY COMPLIES WITH THE
REQUIREMENTS OF NEG 590.

DATE: 6/21/2021 SCALE: NTS

DRAWN BY: J.B

PAGE:

E-1

NOTE:
PER FL. STATUTE 377.705 (REVISED 7/1/2017), I MANUEL E. SIQUES PE #20233 AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE.

