



SPECIFICATIONS

Compliance Information

Specification	Standard certified
Safety	IEC 62477-1: 2022 - Safety requirements for power electronic converter systems and equipment - Part 1: General
	IEC 62109-1:2010 - Safety of power converters for use in photovoltaic power systems - Part 1: General requirements
	IEC 62109-2: 2011 - Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters
	IEC 62933-5-2: 2020 - Electrical energy storage (EES) systems - Part 5-2: Safety requirements for grid-integrated EES systems - Electrochemical-based systems
	IEC 62619: 2022 - Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications
	UL 1973: Batteries for Use in Stationary and Motive Auxiliary Power Applications
	UL9540A: Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems
Grid Interoperability	AS 4777.2 Grid Connection of Energy Systems via inverter Part 2 Inverter Requirements
Energy Storage	Energy Storage Systems and Equipment [ANSI/CAN/UL 9540:2020 Ed.2]
EMC	IEC 61000-6-1:2016 - Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments
	EN IEC 61000-6-3: 2020 - Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments

Powerwall 3 Expansion Specifications

Battery Technical Specifications

Model Number	1807000-xx-y
Nominal Battery Energy	13.5 kWh
Voltage Range¹	52 - 92 V DC

¹Expansion units are connected in parallel and are not field serviceable.

Powerwall 3 Model Numbers When Installed with Expansion(s)

Model Number	Powerwall 3 Configured Power Output	Number of Expansion Units
1707000-11.04kVA-13.5	11.04 kW	None
1707000-10kVA-13.5	10 kW	
1707000-5kVA-13.5	5 kW	
1707000-11.04kVA-27	11.04 kW	1
1707000-10kVA-27	10 kW	
1707000-5kVA-27	5 kW	



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Model Number	Powerwall 3 Configured Power Output	Number of Expansion Units
1707000-11.04kVA-40.5	11.04 kW	2
1707000-10kVA-40.5	10 kW	
1707000-5kVA-40.5	5 kW	
1707000-11.04kVA-54	11.04 kW	3
1707000-10kVA-54	10 kW	
1707000-5kVA-54	5 kW	

Environmental Specifications

Operating Temperature²	–20°C to 50°C
Operating Humidity (RH)	Up to 100%, condensing
Storage Temperature	–20°C to 30°C, up to 95% RH, non-condensing, State of Energy (SOE): 25% initial
Maximum Elevation	3000 m
Environment	Indoor and outdoor rated
Ingress Rating	IP67
Pollution Rating	PD3

²Performance may be de-rated at operating temperatures above 40°C.

Compliance Information

Certifications	IEC 62619, IEC 62933-5-2, IEC 61000-6-1:2016, and EN IEC 61000-6-3: 2020
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Mechanical Specifications

Dimensions ³	1105 x 609 x 168 mm		
Total Weight of Wall-Mounted Unit (includes cover and bracket)	118.5 kg		
Weight of Powerwall 3 Expansion (no cover or bracket)	110 kg		
Mounting Options	Floor or wall mount		
Stacking Capability (Floor Mount Only)	Up to (3) Expansion units behind a Powerwall 3		
Compatibility with Other Systems	Only compatible with Powerwall 3		
Connection to Powerwall 3 or Expansions	Expansion Harness		
Expansion Harness Options	0.5 m	2 m	4 m
Weight of Glass Front Cover	6.5 kg		
Weight of Wall Bracket	1.9 kg		
Weight of Expansion Unit Accessories	0.7 kg		



NOTE: See [Powerwall 3 Center of Mass on page 117](#) for weights of stacked configurations.

³These dimensions include the glass front cover being installed on the Expansion unit.