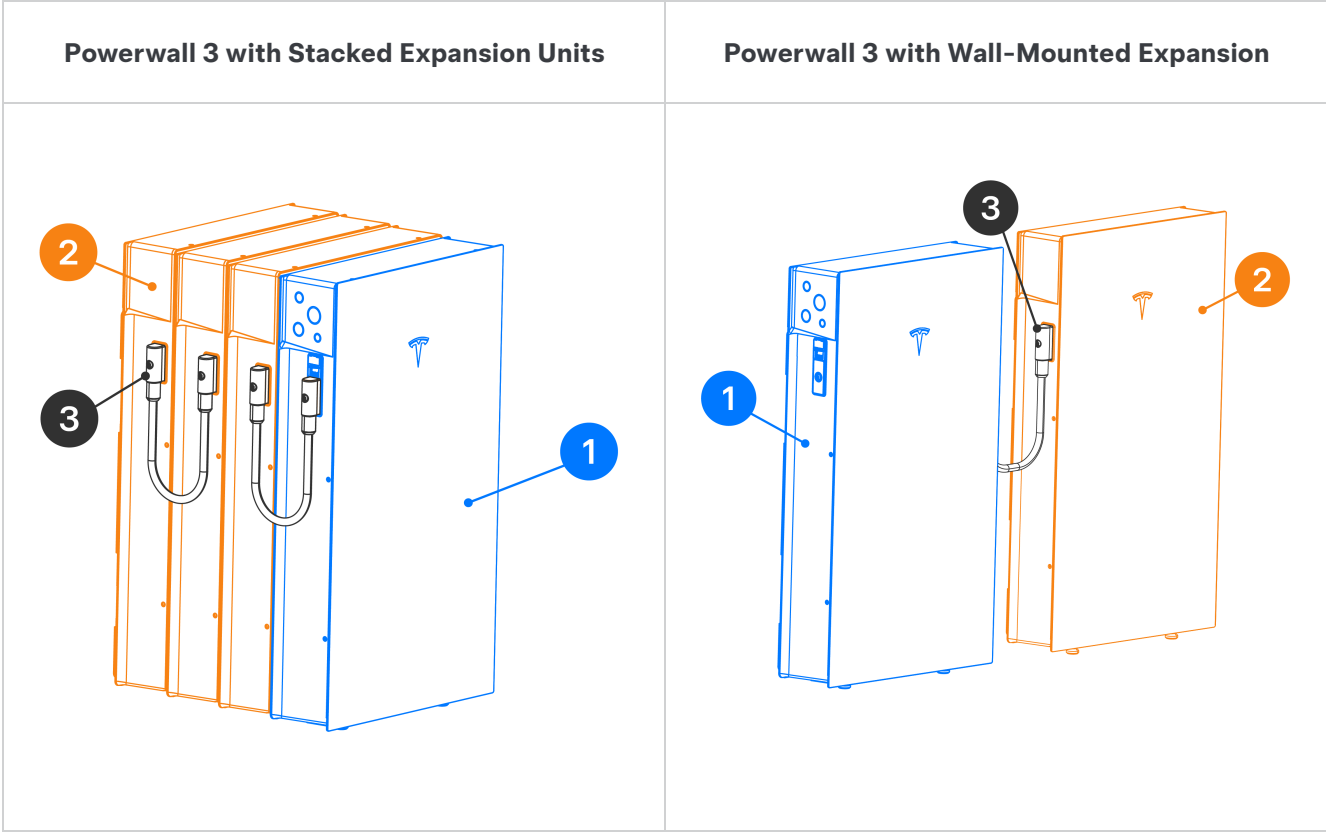


Install Expansion Units with Powerwall 3



1	Powerwall 3
2	Powerwall 3 Expansion
3	Expansion Harness

Expansion units offer additional storage for Powerwall 3 systems. Key points about Expansion units include:

- **Function:** An Expansion unit does not include an inverter; it is only additional storage (kWh)

NOTE

Expansion units do not have an LED. Wall-mounted Expansion units are installed with the same glass front cover as Powerwall 3, but the logo on the front will never light because there is no LED in the unit.

i NOTE

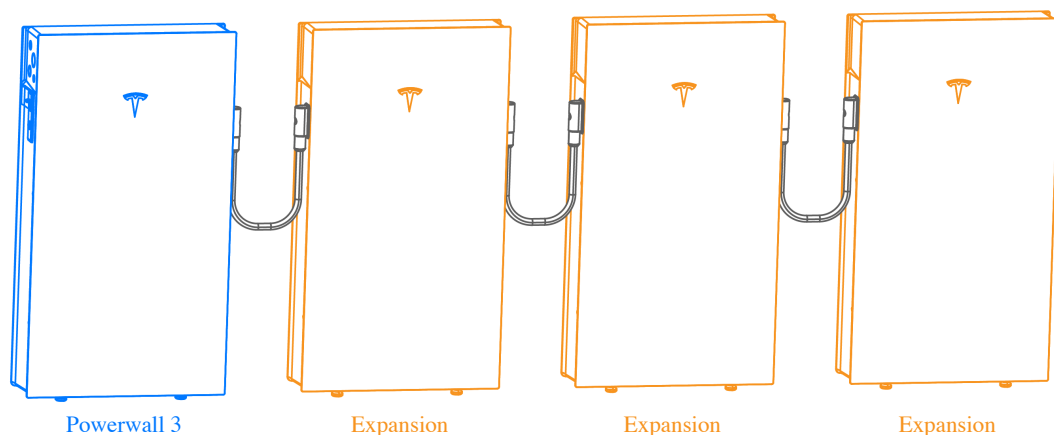
Expansion units are not field serviceable.

- **Dimensions:** The Expansion enclosure is the same height and width as Powerwall 3, but is 1 inch (25 mm) slimmer than Powerwall 3 ([see diagram](#))
- **Mounting:** Expansion units can be mounted individually, or ground-mounted in a stacked configuration behind a Powerwall 3
- **Expansion Connection:** Expansion units can only be connected to Powerwall 3 or other Expansion units via the Expansion Harness (see [Expansion Harness](#)). Each unit (Powerwall 3 and Expansion) has (2) Expansion ports, one on each side of the enclosure

i NOTE

The Expansion units are electrically paralleled with a Powerwall 3.

- **System Size:** Up to (3) Expansion units can be connected to the Leader Powerwall 3
- **Compatible Powerwall 3 Units:** Powerwall 3 units with Tesla P/N 1707000-xx-J or greater are compatible with Expansion units
- **Flexibility:**
 - The Expansion Harness can be plugged in on either side of a Powerwall 3 or an Expansion unit
 - Powerwall 3 can be installed at either end of a chain of Expansion units



- Powerwall 3 can be installed in the middle of a chain of Expansion units

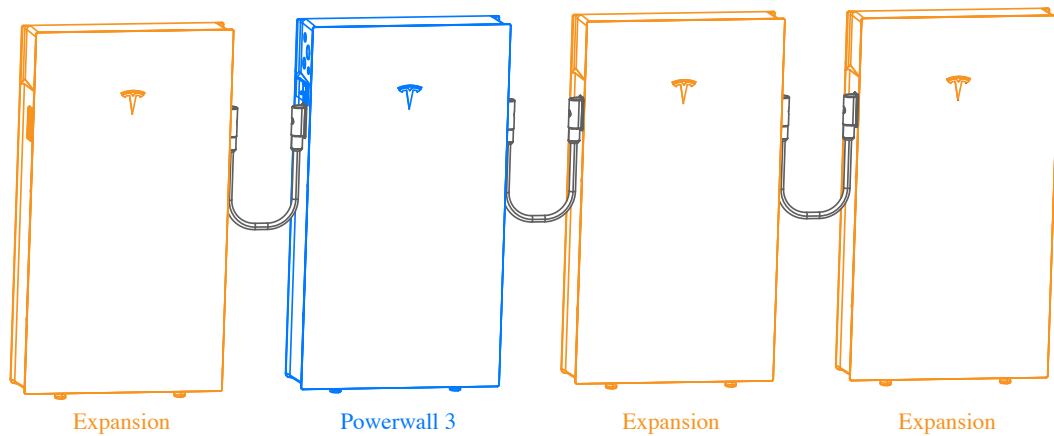
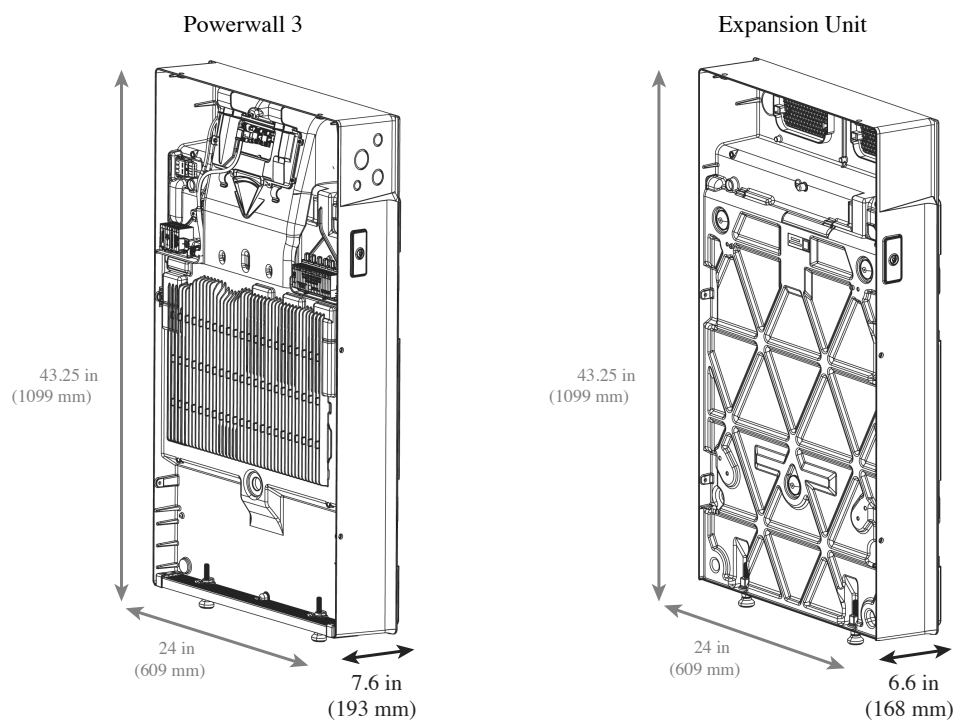


Figure 1. Powerwall 3 Dimensions Compared with Expansion Unit Dimensions



NOTE

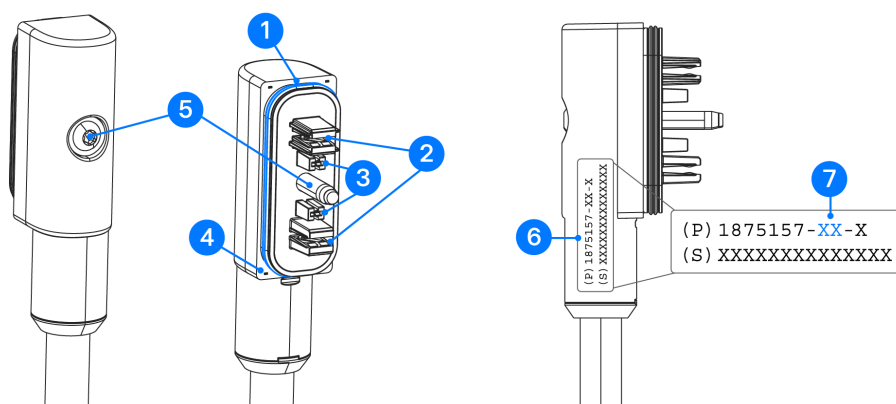
Powerwall 3 and the Expansion unit are both 43.5 in (1105 mm) tall when the glass front cover is installed.

Expansion Harness

The Tesla Expansion Harness is a non-metallic sheathed hard-use appliance cable assembly rated for indoor or outdoor installations. The cable uses an extruded TPE jacket, is moisture, flame and UV resistant, and has a temperature rating of -40°C to 105°C . The harness is a listed component of the Powerwall 3 and Expansion UL 9540 certifications and is required for electrical connection between the Powerwall 3 and the Expansion units. Field wiring of the Expansion unit, alteration of the Expansion Harness (e.g. splicing), and/or routing the Expansion Harness through a wall or partition are prohibited.

⚠ WARNING

Do not modify the Expansion Harness in any way. Doing so would result in product damage that could void the product warranty.



1	Sealing gasket
2	DC jaws
3	Communication ports
4	Grounding spikes (4)
5	Harness screw (T40)
6	Etched part number
7	Harness length identifier in part number

Table 1. Expansion Harness Options

Expansion Harness Part Number	Expansion Harness Length
Tesla P/N 1875157-05-y	0.5 m (20 in)
Tesla P/N 1875157-20-y	2 m (6.5 ft)

Expansion Harness Part Number	Expansion Harness Length
Tesla P/N 1875157-40-y	4 m (13 ft)

i NOTE

When Expansion units are wall-mounted and connected on only one side of Powerwall 3, the maximum combined harness length is 4 m / 13 ft (see [Allowable Harness Combinations](#) for more information). When Expansion units are connected on both sides of Powerwall 3, there is no limit on the maximum combined harness length.

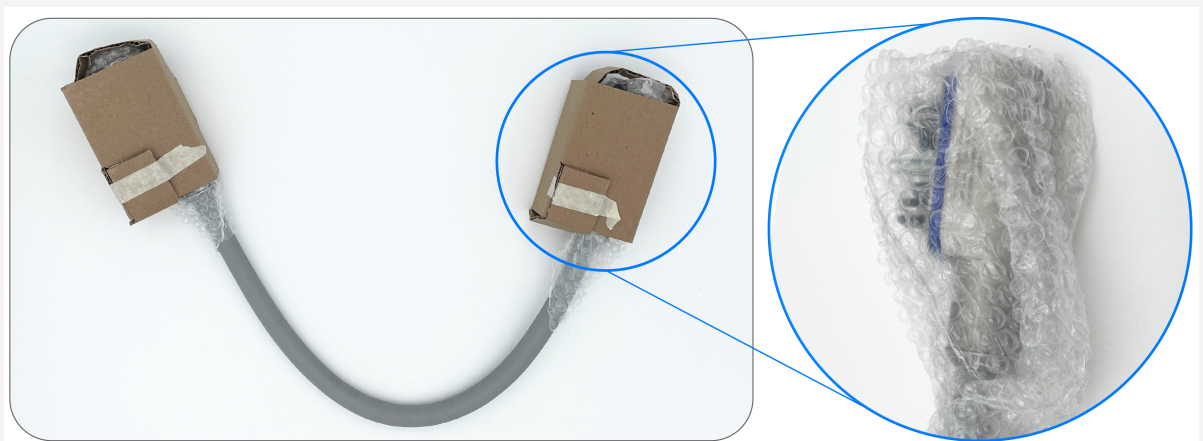
i NOTE

Expansion Harnesses can be plugged into both the left and right ports on the Leader Powerwall 3.

! CAUTION

The Expansion Harness ships in protective packaging from the factory.

- Do not remove the protective packaging until ready to plug the Expansion Harness into the Expansion port
- If the Expansion Harness is unplugged and needs to be set aside, place it back in the protective packaging
- If the Expansion Harness is dropped or otherwise damaged, or if dust / debris enter its DC jaws and/or communication ports, **do not use that Expansion Harness**. Recycle it and use a new Expansion Harness

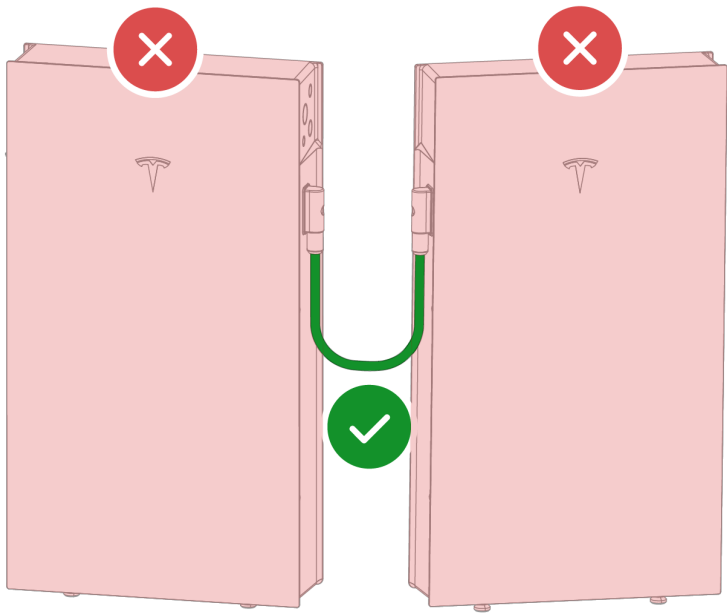


i NOTE

The Expansion Harness can be painted under the following conditions:

- The paint is latex or acrylic-based (do not use an oil-based paint)

- Only the harness cable is painted; do not paint the connectors, or any part of Powerwall 3 or Expansion
- A primer coat prior to painting is recommended to help with adhesion and bonding.



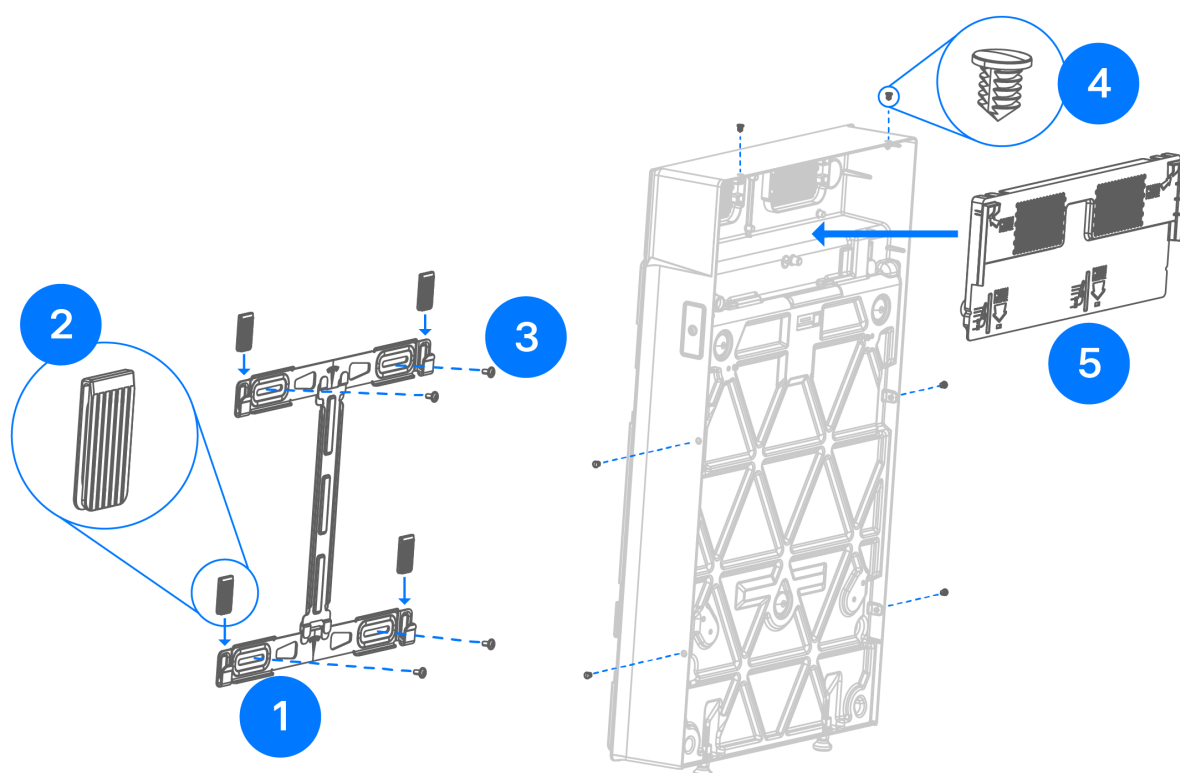
Expansion Mounting Configurations

	Stacked Configuration	Wall-Mounted Configuration
	A diagram showing a blue Powerwall 3 unit at the bottom and an orange Expansion unit stacked on top. A grey arrow points to the side view, showing the connection between the two units. The labels 'Expansion' and 'Powerwall 3' are present.	A diagram showing a blue Powerwall 3 unit and an orange Expansion unit mounted side-by-side on a wall. The labels 'Powerwall 3' and 'Expansion' are present.
Kit P/N	Tesla P/N 1978070-xx-y	Tesla P/N 1978069-xx-y

	Stacked Configuration	Wall-Mounted Configuration
Included Accessories	See Powerwall 3 Stacking Expansion Kit	See Powerwall 3 Wall-Mount Expansion Kit
Expansion Harness (ordered separately, see Expansion Harness for part number location)*	Tesla P/N 1875157-05-y	Tesla P/N 1875157-05-y
		Tesla P/N 1875157-20-y
		Tesla P/N 1875157-40-y
Expansion Harness Straps	Not required	Tesla P/N 1730711-xx-y, some are included in accessory bag but additional straps can be ordered (Bridgeport US-6171 strap)
Installation Instructions	Install Stacked Expansion Units	Wall Mount an Expansion Unit

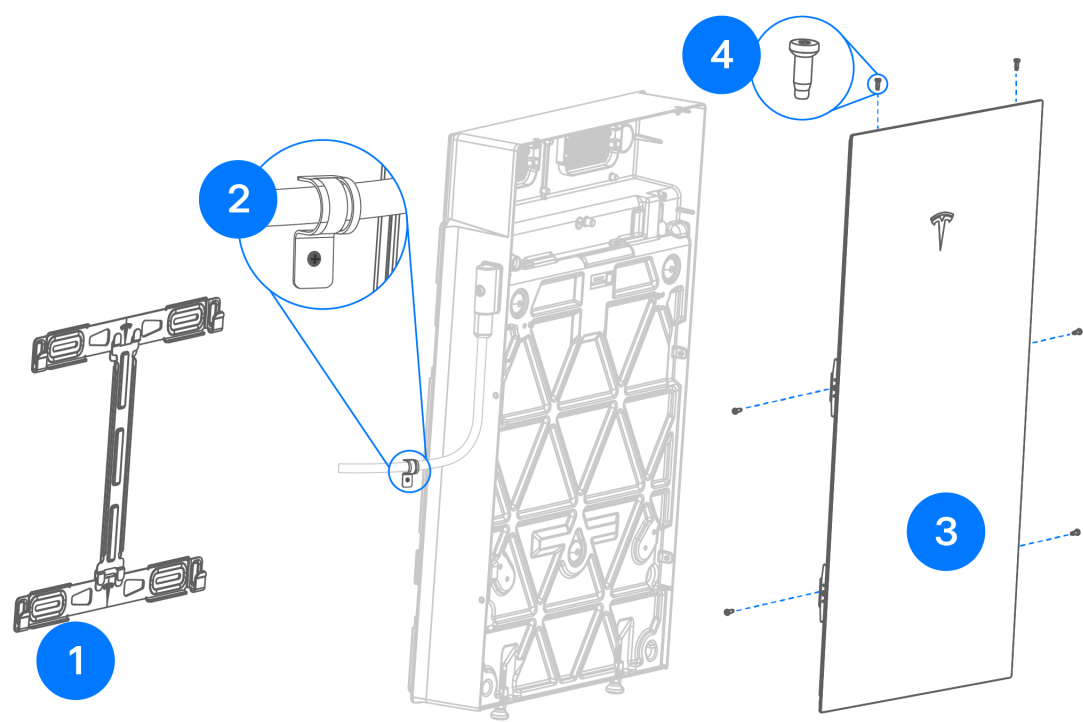
*Expansion harnesses can be plugged into both the left and right ports on the Leader Powerwall 3. See [Wall Mount an Expansion Unit](#) for a table of all allowable harness combinations.

Powerwall 3 Stacking Expansion Kit



1	1738120-xx-y	Wall bracket
2	1983307-xx-y	(4) mounting bracket shims
3	1978075-xx-y	(4) Torx T40 mounting bracket bolts
4	1978071-xx-y	(6) fir tree plugs, used to fill in the fastener holes on the top and sides of the enclosure
5	1978068-xx-y	Fan front cover

Powerwall 3 Wall-Mount Expansion Kit



1	1738120-xx-y	Wall bracket
2	1730711-xx-y	(9) Straps for Expansion Harness cable management (Bridgeport US-6171 strap)
3	1763418-xx-y	Glass front cover

4	1857363-xx-y	(6) M6 fasteners for front cover
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