



# Solar external support

Should I add energy storage to my solar system?

Adding energy storage to your solar system is the best way to maximize your system's value- allowing you to use solar power day and night. Powerwall can be integrated with a new or existing solar system.

Can a roof support solar panels?

Make sure your roof can support solar panels. A solar installer, roofing expert, or structural engineer can help you determine your roof's solar suitability.

Should I integrate Powerwall and solar?

Integrating Powerwall and solar is the best way to maximize your system's value, allowing you to use solar power day and night. Powerwall 3 and Powerwall+ have an integrated solar inverter allowing solar to be connected directly for high efficiency.

What are the interconnection requirements for solar PV systems?

Interconnection requirements for solar PV systems installed at medium voltage (10 kV to 100 kV) were recently put into effect in Germany. The power factor design criterion is 0.95 lag to lead at full output, which requires inverters to be oversized or de-rated.

Do solar PV inverters need Dynamic Reactive support?

Sometimes, external dynamic reactive support is required to assist with voltage ride-through compliance. During periods of low wind or solar resource, some generators in the plant may be disconnected from the grid. The DC voltage for solar PV inverters may limit the reactive power capability of the inverters.

Can Powerwall be installed with solar?

When Powerwall is installed with solar, recent installs can charge from the grid if allowed by your installer during commissioning and by the customer in their Tesla app. Powerwall can be added to a system with a backup generator connected with an external Automatic Transfer Switch (ATS) or a Manual Transfer Switch (MTS).

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