

Photovoltaic panels on the loader side



Overview

A backfeed breaker can be used to connect a solar PV system to the load-side of a service. There are several different ways this can be done per the NEC but the most common method for solar residential installs is by connecting it to the end of a busbar using the 120% rule (705. 12. In two editions of Code Corner, Ryan Mayfield with Mayfield Renewables, explains busbar, load side interconnections in 705. If you have no idea what that means, read on. The alternative is a "LINE OR SUPPLY-SIDE" connection made BEFORE the main breaker. The most common method, the load-side connection, is governed by. Choosing between a supply-side (line-side) or load-side (breaker-based) connection impacts not only your system cost and complexity, but also code compliance and inspection outcomes.

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Load Side Feeder PV Tap



Is this tap an installation you have not done before as a solar installer? The main thing is you need overcurrent protection arranged to prevent the combined 200A utility and 37A solar from ...

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Line Side Tap vs. Load Side Tap: Everything You Need To Know

With a load side tap, your solar inverter is wired directly to your electrical panel through a circuit breaker. When you have more power than you need, it flows from that breaker through the bus ...



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NEC 2020 , 705.11 , Load and Supply Side Connections

"We're making connections on the service side, and there's no overcurrent protection on the utility side, so we need to make sure that we're protecting these conductors in the case of a fault, ...

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PV Interconnection: Load-Side vs. Line-Side

Solar installers and professionals must understand permitting and compliance policies when interconnecting a photovoltaic energy installation to the grid. This article provides insight into different ...

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Point of Connection Rules for PV Systems (NEC ...

A deep dive into NEC 705.12, explaining the rules for determining a code-compliant point of connection (POC) for a PV system on the load side of the service.

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Solar Interconnection Methods (Full Guide)

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How To Connect Solar To Grid: Complete Installation Guide (2025)

Learn how to safely connect solar panels to the electrical grid with our comprehensive guide covering permits, installation steps, safety requirements,

and code compliance.

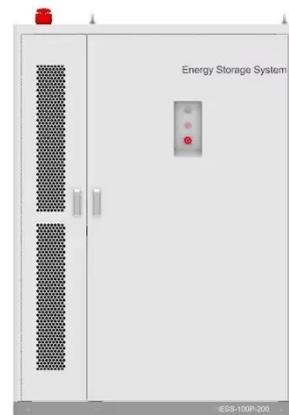
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How to connect a PV solar system to the utility grid

There are two basic approaches to connecting a grid-tied solar panel system, as shown in the wiring diagrams below. The most common is a "LOAD SIDE" connection, made AFTER the main breaker.

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NEC 705.11 & 705.12

One of the key updates in NEC is Section 705.11, which governs how solar systems can be connected to a building's electrical infrastructure -- either on the supply side or load side of the

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Solar Interconnection: Supply vs Load Side

Understand solar interconnection types--supply-side vs load-side--and learn how to design NEC-compliant,

inspection-ready PV systems.

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