

# Solar inverter load point



## Overview

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DC/AC ratio, also called inverter loading ratio (ILR), is the array's STC power divided by the inverter's AC nameplate power. A higher ILR feeds more energy during long shoulder hours and in winter, at the cost of some midday clipping on clear, cool days. The code dictates two primary methods for interconnection: a NEC 705. The most common method, the load-side connection, is governed by. There are two basic approaches to connecting a grid-tied solar panel system, as shown in the wiring diagrams below. The alternative is a "LINE OR SUPPLY-SIDE" connection made BEFORE the main breaker. Set them well and you gain energy all year, keep the inverter in its high-efficiency zone, and leave headroom for grid support and batteries.

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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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### Solar Interconnection Methods: Supply-Side And Load-Side ...

Compare supply-side vs load-side solar interconnections. Understand the 120% rule, NEC requirements, and how to choose the right method for your project.

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### The Ultimate Guide to DC/AC Ratio and Inverter Loading

Optimize DC AC Ratio and Inverter Loading to curb clipping and calculate inverter load ratio with climate-smart sizing.

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### Solar Interconnection: Supply vs

## Load Side

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 ...

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## PV Interconnection: Load-Side vs. Line-Side

Export occurs when the power generated by the solar system is greater than the power used by the loads on site. The utility will only permit the photovoltaic system to interact with the power grid after ...

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## 2014 NEC 705.12 (D) (2)

Let's start out with the first basic requirement in 705.12 (D) (2): 125% of the inverter output circuit current must be used for the ampacity calculations for most of the interconnection ...

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## NEC 2020 , 705.11 , Load and Supply Side Connections

Example on that last point of being able to put the breaker anywhere you want, with this PV breaker located actually at



the top of the busbar: In this case, 160 amps x 125 = is 200 amps. ...

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## The 120% Solar Rule Explained & When to Derate Your Breaker

For those using load-side breaker in a bus bar for the point of interconnection, the 120% rule states that the main service breaker rating plus 125% of the max continuous AC inverter output ...



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## Interconnection Methods , AE 868: Commercial Solar Electric Systems



NEC 690.64 permits the output of the inverter to be connected to either load side (customer side) or supply side (utility side) service points, depending on the size of the PV system and marginal power ...

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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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### **NEC 2020 , 705.11 , Load and Supply Side Connections**

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