

## Kongres Container

# Maximum allowed inverter power



## Overview

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Can maximum inverter power limit grid feed-in?

The values of „maximum inverter power“ have always positive sign. Therefore they only limit the charging values for grid setpoint. They cannot limit the negative values for grid feed in. Using Grid feed-in → Limit system feed-in instead, also cannot solve this problem.

What happens if a PV inverter reaches a maximum current limit?

The inverter's DC input current should always stay within its maximum limit. If the PV module's output current exceeds this limit, it may lead to current-limited operation and potential inverter damage, reducing power generation efficiency and return on investment.

What is a maximum input current in a PV inverter?

1. Maximum Input Current Definition: The maximum operating current allowed to pass through the PV side of an inverter. The input current is especially critical in scenarios with high peak power currents, such as those involving thin-film PV modules.

Does maximum inverter power go back if grid setpoint is high?

If „maximum inverter power“ goes back to a higher value, the grid feed in also goes back if grid setpoint is that high. Nevertheless, I expect same behaviour for the “Limit system feed in”. This would allow high inverter power, high self consumption but only low grid feed in.

What happens if a PV module's output current exceeds a limit?

If the PV module's output current exceeds this limit, it may lead to current-limited operation and potential inverter damage, reducing power generation efficiency and return on investment. Note: Inverter specifications typically indicate the MPPT working current rather than the input current of a single PV string.

How many solar panels can a MPPT inverter have?

The number of solar PV panels in each string must be at least 4 modules. The PV array must not exceed one string. This step is not required for the inverter MPPT with only one string. The PV generator (PV array) consists of one string, which is connected to the three-phase 5KW inverter.

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