

## Kongres Container

# Grid-connected inverter has anti-backflow



## Overview

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The photovoltaic system with CT (Current Transformer) has anti-backflow function, which means that the electricity generated by photovoltaics is only supplied to loads, preventing excess electricity from being sent to the grid. 2. Why do you need anti-backflow?

There are several reasons for.

Photovoltaic inverter backflow prevention refers to a technical measure in a photovoltaic power generation system to prevent the power generated by the photovoltaic system from flowing back into the power grid. This technology ensures that the output power of the photovoltaic system does not exceed.

The invention provides an anti-backflow method for a grid-connected power generation system. The anti-backflow method comprises the following steps of: A) respectively acquiring power generation power of a photovoltaic system and load power of a load, and calculating a reference quantity  $\alpha$ .

Grid-tie inverters convert DC into AC synchronized with the grid in frequency and phase, enabling power exchange with the utility grid. Off-grid inverters convert DC into AC for standalone loads that are not connected to the grid. Microinverters are connected directly to individual solar arrays.

This reverse flow of energy, originating from PV modules → inverter → load → grid, is referred to as reverse current or backflow. The anti-backflow function is specifically designed to prevent this reverse energy flow. Its purpose is to safeguard both the PV system and the grid infrastructure from.

In a photovoltaic system, the output of DC electricity from photovoltaic modules is converted into AC electricity by an inverter for use by the load; When the power generation of the photovoltaic system is greater than the load power, due to the inability of the load to fully absorb the electricity.

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