SolarTech Power Solutions

Solar inverter backflow prevention

Overview

Explore professional backflow prevention devices - Block reverse power in solar systems, ensure grid compliance, and maximize self-consumption. Technical guide with global certifications.How does an inverter achieve anti-backflow?

Upon detecting current flow towards the grid, the inverter will reduce its output power until the countercurrent is eliminated, thereby achieving anti-backflow. It is important to note that the CT and meter themselves do not have anti-backflow capabilities; they simply collect data to enable the inverter to adjust its output accordingly.

How does a Deye inverter anti-backflow work?

4. The solution?

Deye inverter anti-backflow working principle: install an meter with CT or current sensor at the grid-connected point. When it detects that there is current flowing to the grid, it will feed back to the inverter, and the inverter will immediately change its working mode and track from the maximum power point of MPPT.

Does a photovoltaic system have anti-backflow?

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 installing an anti-backflow prevention solution:.

Why should I install an anti-backflow prevention solution?

There are several reasons for installing an anti-backflow prevention solution: 2.1.Limited by the capacity of the upper-level transformer, users have new grid system installation needs, but it is not allowed locally. 2.2.Due to some

regional policies, grid connection is not allowed. Once it is found, the grid company will impose a fine.

Why is anti-backflow referred to as countercurrent?

Since this current flows in the opposite direction to the conventional one, it is referred to as “countercurrent.” Q: Why is anti-backflow needed?

A: There are several reasons to prevent excess electricity generated by the PV system from flowing into the grid:

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