

## SolarInnovate Energy Solutions

# What is the anti-backflow device at the front end of the energy storage cabinet



## Overview

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The anti-backflow device detects when the grid power is unavailable and immediately shuts down the solar inverter, isolating the solar panels from the grid. Why should you use an anti-backflow solution for energy storage systems?

During the discharge process of industrial and commercial energy storage systems, due to power fluctuations, changes in load power consumption and other reasons, reverse flow of electrical energy may also occur. The anti-backflow solution can effectively avoid this problem and ensure the safe and efficient operation of the energy storage system.

How does an anti-backflow inverter work?

If any energy feeding into the grid is detected, the anti-backflow device immediately provides feedback to the inverter. The inverter then quickly reduces its output power, achieving a state of zero feeding to the grid. This function is critical for maintaining the safety and compliance of PV systems in regions with strict regulations.

How does a Deye inverter anti-backflow work?

### 4. The solution?

Deye inverter anti-backflow working principle: install a 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.

What is a reverse current & backflow function?

When a PV system generates more electricity than the local load consumes, the excess power flows onto the grid. 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.

What is a photovoltaic system with anti-backflow?

After installing a photovoltaic system with anti-backflow, the power generated by the photovoltaic is only supplied to the local load, and the power generated by the photovoltaic energy storage system can be controlled not to be sent to the grid.

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.

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### VIDEO: Why Do Oil Filters Have Anti-Drain Back Valves?

Aug 20, 2020 · For spin-on filters, the anti-drain back valve is a rubber-like membrane on the inner side of the can behind the mounting plate cover. The membrane covers the holes where the oil ...

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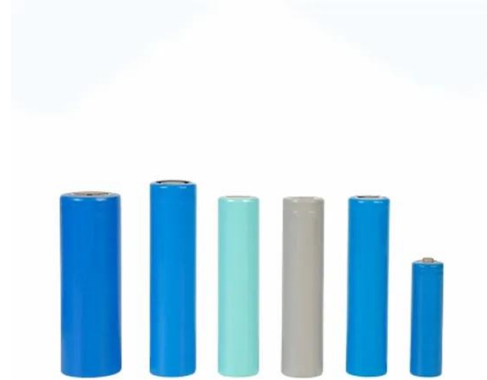
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