

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 grid-connected inverter work?

Install a CT (Current Transformer) or meter on the grid-connected busbar to monitor real-time current direction and magnitude, which is then communicated to the inverter. Upon detecting current flow towards the grid, the inverter will reduce its output power until the countercurrent is eliminated, thereby achieving anti-backflow.

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:

Do CT meter and meter have anti-backflow capabilities?

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. Senergy Single-Phase Residential Anti-Backflow Solution

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