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Why should photovoltaic power generation system be equipped with anti-reverse flow equipment?
If there are many such power generating sources to transmit electricity to the power grid,the power quality of the power grid will be seriously degraded. Therefore,this type of photovoltaic power generation system must be equipped with anti-reverse flow equipment to prevent the occurrence of reverse power.

What is a photovoltaic system with anti-backflow?
The photovoltaic system with anti-backflow is that the electricity generated by the photovoltaic is only used by the local load and cannot be sent to the grid. When the PV inverter converts the DC point generated by the PV modules into AC power, there will be DC components and harmonics, three-phase current imbalance, and output power uncertainty.

What happens if solar power input is reversed?
If the solar power input is reversed,the power will form a short circuitthrough the anti-parallel diode. According to the characteristics of the solar module,the voltage of the solar power supply When pulled down,the voltage value is only the sum of the forward voltage drop of the two diodes,which will not damage the electrolytic capacitor.

How does a reverse current meter work?
When reverse current is detected,the meter communicates the backflow data to the inverter via RS485 communication. The inverter responds within seconds,reducing its output power to ensure the current flow into the grid is nearly zero. Anti-Backflow Solutions Different configurations are available to meet various scenarios:

Working Principle of Anti-Backflow Anti-backflow systems typically involve an anti-backflow meter and current transformer (CT) installed on the mainline. These components measure real-time ...

Since the inverter has an anti-reverse connection circuit, the anti-reverse diode in the circuit should be

short-circuited with a copper wire. Record ...

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