

Solar inverter air cooling





Overview

Can solar inverters be cooled?

Solar inverters can be cooled in one of two ways: by using a passive cooling system or through active cooling. Passive or natural cooling means that the inverter's cooling fin dissipates heat without the need for a fan. This lack of air circulation leads to hotspots of warm air, which reduce the lifespan of the solar inverter.

How does solar inverter cooling work?

In order to keep the heat low, the inverter will stop generating power or reduce the amount of power it generates by "derating" as it passes programmed temperature milestones. Solar inverters can be cooled in one of two ways: by using a passive cooling system or through active cooling.

What is passive cooling in a solar inverter?

Passive or natural cooling means that the inverter's cooling fin dissipates heat without the need for a fan. This lack of air circulation leads to hotspots of warm air, which reduce the lifespan of the solar inverter. The second alternative to passive cooling is to utilise active cooling.

Do solar inverters use forced air cooling?

At present, most of the mainstream single-phase inverters and three-phase inverters below 20kW on the market use the natural cooling method. Forced air cooling is mainly a method of forcing the air around the device to flow by means of a solar inverter cooling fan, so as to take away the heat emitted by the device.



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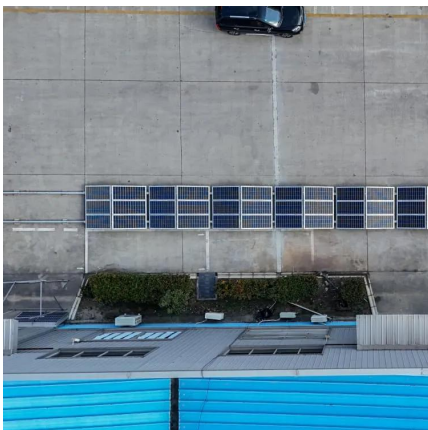
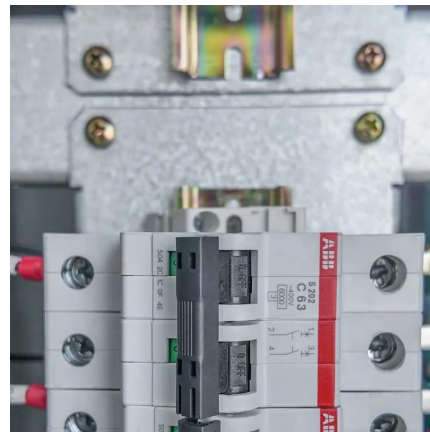


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