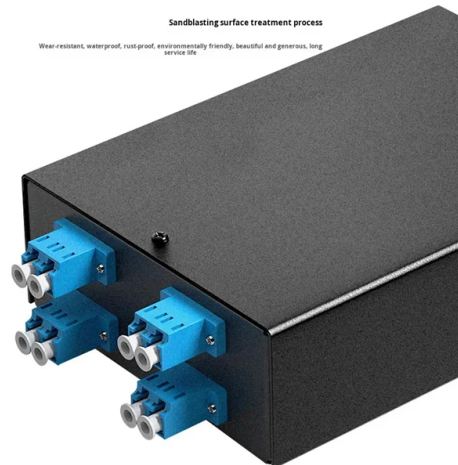


Cooling and reducing the temperature of the distribution box



Overview

The first is natural cooling, through rational design of cooling fins and vents, using natural convection to discharge heat from the distribution box. The second is forced air cooling, which uses fans or duct systems to introduce external air into the distribution. The rule of thumb for semiconductors states that increasing the component temperature by 10 K in relation to the maximum permissible component temperature reduces the part's service life by 50 percent. As electrical components run, they produce heat, which must be managed to avoid overheating, damage, or shutdowns. Understanding the different ways heat moves—like conduction, convection, radiation, and. In order to maximize the life cycles of your electronic devices and keep your business running, it is recommended to adequately control the temperature of your electrical components. A box-type substation is a compact complete set of power distribution devices that combine distribution transformers, high-voltage switchgear, low-voltage switchgear, energy metering equipment, and reactive power compensation devices in one or several boxes according to a certain wiring scheme. In. Chances are it started with an overheated component in a distribution box somewhere upstream. The formula is simple: $\text{Heat} = I^2R$.



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The above is our company's solution to the heat dissipation problem of the box-type substation. Combined with the above methods such as adding exhaust fans and air conditioners, the cooling of

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Application of NTC Temperature Sensors in Distribution Boxes A distribution box is a cabinet that integrates electrical components for the distribution of electrical energy. Its role is to

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