



BUHLE POWER

The inverter output high voltage drops instantly





Overview

Why does my inverter have a current limit alarm?

During normal operation, we may encounter the inverter prompting the current limit. For general inverters that cannot work normally and smoothly when the current limit alarm appears, the voltage (frequency) must be lowered first until the current drops to the allowable range.

What happens if a 12V battery drops under load?

For example, a 12V battery that drops below 10.5V under load will force the inverter to throttle the output, causing the voltage to plummet. Lead-acid batteries that have been charged more than 500 cycles often develop internal sulfation, reducing the usable capacity by 30-50%.

Why does a 12V supply drop to 150v?

Therefore when measured at the output, although the output might show a full 310V (due to the 12V peaks), but under load this might quickly drop to 150V, since the average supply at the primary is 50% less than the rated value. To rectify this issue we have to tackle two parameters simultaneously:.

What happens if a 5kw inverter reaches a high temperature?

For example, an inverter with a rated power of 5kW that continuously outputs 6kW may see its internal temperature rise at a rate of 2-3°C per minute, eventually triggering a protection shutdown. In addition, poor electrical connections can also trigger localized high temperatures:



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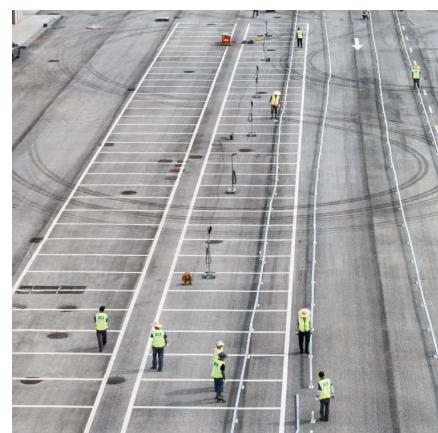


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Inverter Overload Protection

During normal operation, the voltage drop across the shunt resistor remains below the reference voltage, and the op-amp output stays low. When the load exceeds the threshold, the voltage ...



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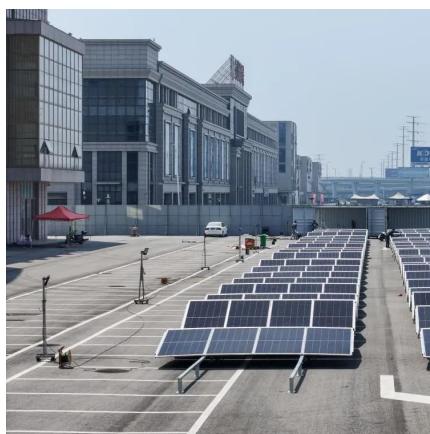


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