

# Strip inverter voltage and current





## Overview

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What is inverter current?

Inverter current is the electric current drawn by an inverter to supply power to connected loads. The current depends on the power output required by the load, the input voltage to the inverter, and the power factor of the load. The inverter draws current from a DC source to produce AC power.

How does AC inverter power affect DC input voltage?

The AC inverter power,  $P_i$  required by the load determines how much current the inverter needs to draw from the DC source. This is influenced by the efficiency of the conversion process, represented by the power factor, PF. The DC input voltage,  $V_i$  provided to the inverter affects the amount of current drawn.

How does a power inverter work?

The current depends on the power output required by the load, the input voltage to the inverter, and the power factor of the load. The inverter draws current from a DC source to produce AC power. The inverter uses electronic circuits to switch the DC input at high frequencies, creating a form of AC voltage.

What is a voltage source inverter?

Voltage source inverters (VSIs) are commonly used in uninterruptible power supplies (UPS) to generate a regulated AC voltage at the output. Control design of such inverter is challenging because of the unknown nature of load that can be connected to the output of the inverter.



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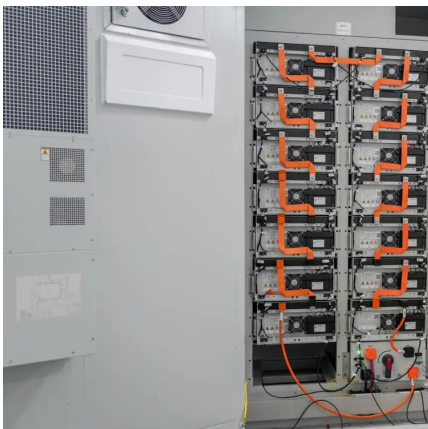
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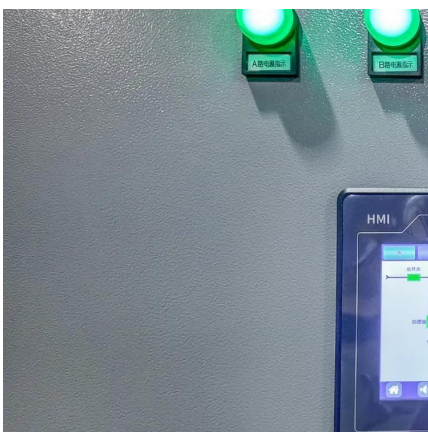
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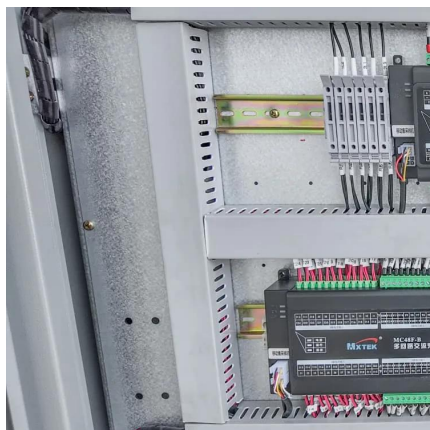


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