

# **Can an outdoor power supply be used with an industrial fan**





## Overview

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Where should a fan be located in a power supply?

As previously stated, for general equipment cooling, the fan can be located anywhere so long as the air flows through the heat source components. For a power supply that is designed to be force-cooled, the amount of air flowing over it is critical for correct and reliable operation.

Should a power supply be force cooled?

For a power supply that is designed to be force-cooled, the amount of air flowing over it is critical for correct and reliable operation. If the fan cannot be located right at the power supply, or if the entire air flow cannot be directed over it, then the fan chosen will need to have a much larger rating.

What if a fan cannot be located at a power supply?

If the fan cannot be located right at the power supply, or if the entire air flow cannot be directed over it, then the fan chosen will need to have a much larger rating. Some fans are specified with an air speed in linear feet per minute (LFM), while others have a volumetric rating in cubic feet per minute (CFM) or cubic meters per hour (m<sup>3</sup>/hr).

How do cooling power supplies work?

This is where cooling power supplies come into play. Some power supplies are designed to be force-cooled using a system fan, which removes the excess heat from the enclosure. In these cases, the airflow required for adequate cooling will be specified in the power supply data sheet.

How many amps does a fan use?

When evaluating how many amps a fan uses, one must consider the voltage supply and the fan's wattage. For example, a 120-volt fan rated at 60 watts will draw about 0.5 amps under normal operation. Variable speed fans may have fluctuating current draws depending on their speed settings and load



conditions.

How many volts does a fan use?

Fans generally operate on alternating current (AC) supplied at a standard voltage, commonly 120 volts in North America or 230 volts in many other parts of the world. The amperage draw can be calculated or found on the fan's specification label. Type of Fan: Ceiling fans, box fans, exhaust fans, and industrial fans vary widely in power consumption.



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### [Industrial Fan Electricity Use: How Much Electricity ...](#)

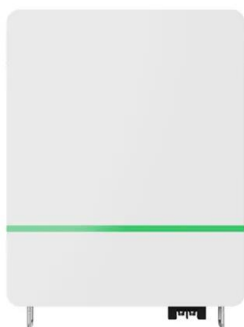
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The fan efficiency is the ratio between power transferred to airflow and the power used by the fan. The fan efficiency is in general independent of the air density and can be expressed as:

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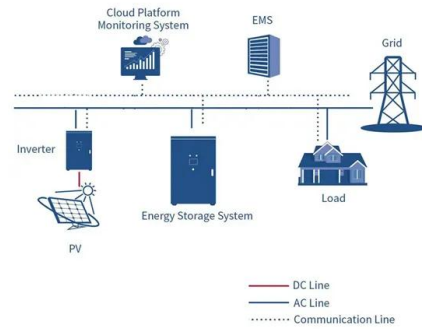




### [Can a Portable Power Station Run a Fan?](#)

Portable power stations can run most fan types including box fans (typically 50-100W), pedestal fans (40-80W), tower fans (30-60W), and even some industrial fans (up to ...

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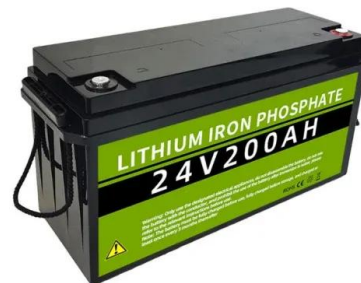
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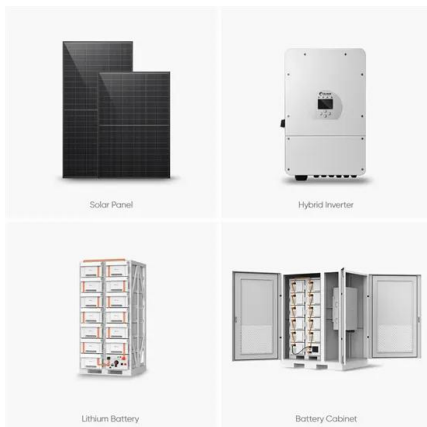
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