

## SolarInnovate Energy Solutions

# What is an AC inverter



## Overview

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What is an inverter AC?

Also known as a variable speed or variable frequency drive (VFD) AC, an inverter air conditioner is an air conditioning system that uses inverter technology to control the compressor motor speed and adjust the cooling or heating capacity of the unit.

How does an Inverter air conditioner work?

In inverter air conditioners, the air compressor works continuously, adapting its performance to the needs of the environment. The working principle of an inverter air conditioner can be summarized as supplying air according to the ambient temperature and automatically adjusting the ambient temperature.

Are Inverter air conditioners the same as a normal air conditioner?

The installation of inverter air conditioners is 99% the same as normal air conditioners or non-inverter air conditioners. The only difference between them is the wiring work between the indoor and outdoor units. Some technicians may charge more for the installation of inverter air conditioners due to the additional wiring work.

What are the different types of Inverter air conditioners?

The most common type of inverter air conditioner is the split unit or sometimes known as the mini split. Apart from that, western countries have inverter window air conditioners. Furthermore, they also have inverter centralized split air conditioners or better known as variable-speed air conditioners.

Why should you choose an Inverter air conditioner?

An inverter air conditioner does not experience temperature fluctuations in the environment it uses. It can heat and cool in a very short time. The maximum operating capacity is higher than other air conditioners. It is more

durable and comfortable. It can automatically adjust the compressor speed according to use.

Are Inverter air conditioners worth it?

Although the cost of purchasing inverter air conditioners is higher, the energy savings they offer make it worth the difference. While regular air conditioner models lose efficiency below 0°C and above 30°C, inverter air conditioners can operate at temperatures down to -15°C and up to 40°C.

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