



Wikipedia Power Supply





Overview

A power supply is an electrical device that supplies electric power to an electrical load. The main purpose of a power supply is to convert electric current from a source to the correct voltage, current, and frequency to power the load. As a result, power supplies are sometimes referred to as electric power converters. Some power supplies are separate standalone pieces of equipment, while others are integrated into other equipment.

General classification Power supplies are categorized in various ways, including by functional features. For example, a voltage regulator is one that maintains constant output voltage or current despite variations in load current or input voltage. An AC-to-DC power supply operates on an AC input voltage and generates a DC output voltage. Depending on the application requirements, the output voltage may contain varying amounts of AC frequency ripple. The suitability of a particular power supply for an application is determined by various attributes of the power supply, which are typically listed in the power supply's specification. Commonly specified attributes for a power supply include:



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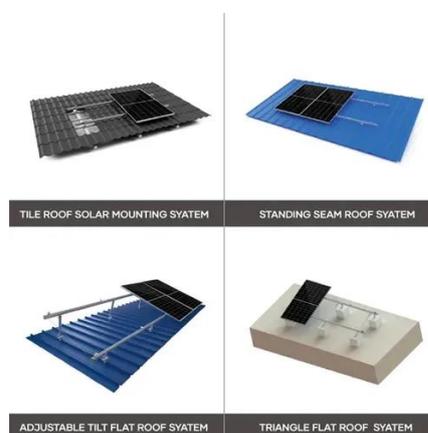


Power supply

All power supplies have a power input connection, which receives energy in the form of electric current from a source, and one or more power output or power rail connections that deliver current to the load.

Power Supply

A power supply is an electrical device that supplies electric power to an electrical load. The primary function of a power supply is to convert electric current from a source to the correct voltage, current, ...



[What Is a Power Supply? A Beginner's Guide to Types and Functions](#)

There are different types of power supplies, including linear power supply, switching power supply, and uninterruptible power supplies (UPS), each with their own unique characteristics ...

Mains electricity by country

This is an overview of mains electricity by country, with a focus on ...



Power Supply

A Power Supply Unit (PSU) is a critical computer component that converts alternating current (AC) to direct current (DC), delivering stable power to the CPU, Motherboard, Graphics Card, Hard Drives,



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power supply

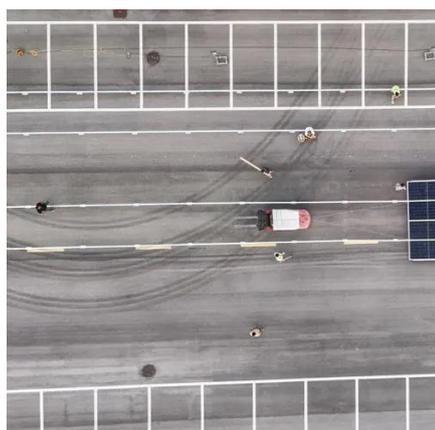
electronic device that converts or regulates electric energy and supplies it to a load



Power supply unit (computer)



While an ATX power supply is connected to the mains supply, it always provides a 5- volt standby (5VSB) power so that the standby functions on the computer and certain peripherals are powered. ...



Mains electricity by country

This is an overview of mains electricity by country, with a focus on listing the regional differences in plug and socket types, nominal supply voltages, and AC supply frequencies commonly used for delivering ...

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The source power may come from the electric power grid, such as an electrical outlet, energy storage devices such as batteries or fuel cells, generators or alternators, solar power ...





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