Power Supplies

Computer power supplies are designed specifically to power computers and their peripherals. They convert alternating current (AC) to low voltage regulated direct current (DC) power necessary to run computer parts. The most important feature of these power sources is their efficiency. It is important that the input power to the power supplies is not wasted in heat generation.

Features

Features for computer power supplies may be important to consider for specific computer systems or applications. Some of these features include:

- Fan cooling
- Heat sink cooling
- Over current
- Over voltage
- Power factor correction
- Remote On / Off switch
- Short circuit protection

Types

The most important distinguishable feature of computer power supplies is the form factor; this specifies the size, shape, and often other features of the device. The form factor must match the type of motherboard where the power supply is to be installed. There are a variety of computer motherboard styles and cases available, and typically each has a corresponding power supply form factor which should be chosen to match.

Connections

Relating to form factor are the connections made by computer power supplies. Different connectors determine what devices power supplies can connect to and supply power for. It is important to select a power supply that has the right connections needed for the system.

20+4Pin

PCI - E Connectors

SATA

Floppy Connectors

P4 MB Connectors

4Pin Molex Connectors