

Power Supply

300 Watt Redundant N+1 ATX
Power Supply

ATXPOW300RD
ATXPOW300MOD

Instruction Guide



FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech support* link on our homepage, www.startech.com. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**
Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a two-year warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Product Specifications

ATXPOW300RD

Dimensions	7.25 x 8.38 x 6.0 Inches (184 x 213 x 152 mm)
Weight	12.8 lbs (5.8 kg)
Input Voltage	115/230V
Output Power	300W
Connectors	10 x 4-pin-LP4-female 2 x small internal power 1 x 20-pin ATX motherboard adapter 1 x 4-pin extended ATX power 12V plug and Aux plug for Pentium 4
MTBF	500,000 hours (backplane), 60,000 hours each module
Safety Approvals	TUV, UL, CSA, CE, FCC
AC Input	Voltage 115V~ Current 8A Voltage 230V~ Current 4A Frequency 50~60Hz
DC Output	+5V (30A) +12V (11A) +3.3V (15A) -5V (1A) -12V (1A) +5VSB (1.2A)

ATXPOW300MOD

Dimensions	5.9 x 3.35 x 5.5 Inches (150 x 85 x 140 mm)
Weight	3.38 lbs (1.53 kg)
Input Voltage	115/230V
Output Power	300W
MTBF	60,000 hours each module
Safety Approvals	TUV, UL, CSA, CE, CB, FCC
AC Input	Voltage 115V~ Current 8A Voltage 230V~ Current 4A Frequency 50~60Hz
DC Output	+5V (28A) +12V (11.5A) -5V (0.5A) -12V (0.8A) +5VSB (1.2A)

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Introduction

Thank you for buying a StarTech.com 300-Watt N + 1 ATX power supply. This redundant power supply will drastically increase your system's reliability by eliminating downtime due to power supply failure. If one of the power supply modules fails, the other continues to make sure the computer still operates while alerting you to the problem. When both power supplies are functioning, the ATXPOW300RD balances the load share between the two power supplies. This power supply is ideal for servers and mission-critical workstations where reliability is crucial.

In the event of module failure, a replacement power supply (ATXPOW300MOD) can be easily hot-swapped without interference to the system.

Features

- Provides the utmost in reliability for servers or mission-critical workstations
- Eliminates downtime from power supply failure
- Allows hot-swapping of power supplies in event of module failure
- Balances computer power load between modules, reducing supply component strain
- Indicates failure state by audible alarm and LED indicators
- Ideal for Pentium and AMD Processors
- Provides extra power capacity for PC servers with several hard drives
- Provides the extra current required by 1 GHz and faster CPUs
- Provides the extra power required by leading edge 3D video accelerator cards
- Provides extra current and power capacity for overclocking CPUs
- Automatically detects temperature and adjusts fan speed to maintain optimal performance
- Backed by StarTech.com's two year warranty

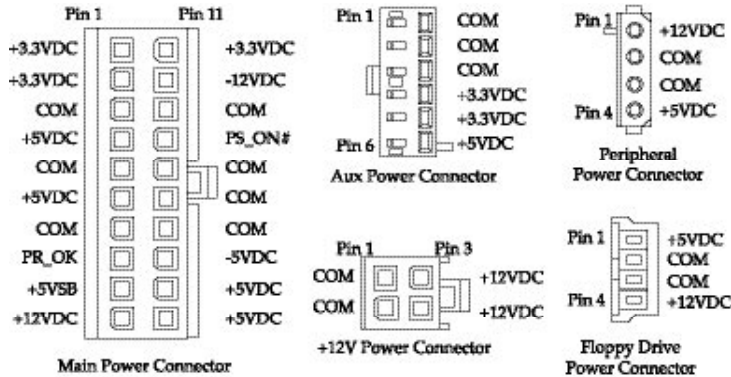
WARNING! Computer parts can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also make sure that your computer is turned off and unplugged before attempting to open your computer case.

Hot-Swap Procedures

Use the following procedure to hot-swap a power module if one of the units fails.

1. Locate the defective power supply by examining the individual LEDs. The power unit where the LED is not lit is the defective unit.
2. Turn off the defective power supply unit by using the individual on/off switch.
3. Unplug the power cord that belongs to the defective power supply unit.
4. Remove the defective power supply unit.
5. Replace it with a new power supply unit, making sure that the proper AC input voltage is set.
6. Turn on the new power supply unit.
7. When possible, test the new power supply unit by simulating a defective situation. Refer to previous section for details.

ATXPOW300RD Connectors



Testing Your Power Supply

Use this procedure to test the redundancy function of your power supply before you put the cover back on your computer.

1. Initiate the ATX system and turn on the individual power supplies using the switches on the back. Be sure the power unit is operating properly, and that both LEDs are lit red.
2. Turn off one of the power supplies. The warning buzzer in the power system should sound, and the LED indicating the power supply status should turn off.
3. The warning buzzer will continue sounding. Reset the warning buzzer by pressing the buzzer rest switch at the rear side.
4. Turn the power supply back on. The warning buzzer should disappear and the LED will light again.
5. Test the other power supply by performing the same procedure.
6. If you access the power defective signal, there is a two pin connector which should be connected to the FAB-5 (for Windows NT) or PMC card (for Novell system) properly. Refer to the FAB-5/PMC User's Manual.
7. If there are no problems, turn off the power supplies and the main on/off switch. Put the cover of the case back on.

Contents

This package should contain:

- 1 x ATXPOW300RD power supply
- 2 x power cords
- OR 1 x ATXPOW300MOD replacement module

System Requirements

Your computer will need a tower case that is designed to accept redundant power supplies.

Installation

NOTE: Check the power supply voltage before installation. It should be the same as your local power voltage (115V for North America and 230V for most of the European countries). Change the voltage setting if necessary.

1. Make sure that your system is turned off and unplugged. Disconnect the power cord from your old power supply.
2. Open the case (consult your computer's user guide for details, if necessary).

NOTE: Before completing the next step, you may want to take note of what devices are attached to your current power supply so you know which devices need to be connected to the new power supply and where their connectors are located.

3. Disconnect all power connectors from the motherboard and the peripheral devices such as hard drives, floppy disks, etc. Make sure that there are no devices connected to your existing power supply.
4. Remove the existing power supply from your computer case and replace it with the new StarTech.com power supply.
5. Connect the power connectors to your motherboard and peripheral devices.
6. Connect the power cord to the StarTech.com power supply.