

## Professional 450W ATX Computer Power Supply with PCIe & SATA

ATX2PW400PRO (400 Watt)

ATX2PW450PRO (450 Watt)

ATX2PW500PRO (500 Watt)

ATX2PW550PRO (550 Watt)



\*actual product may vary from photos

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## 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. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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# Introduction

This 450 Watt ATX12V 2.01 power supply offers a professional-grade PC power solution, with support for modern Intel and AMD dual-core CPU designs as well as PCI Express and SATA device connections.

Compliant with ATX12V 2.01 revision standards, the power supply offers dual 12V power rails and ensures broad compatibility with a 20/24 pin motherboard connection.

Designed to provide dependable, long-lasting power to your hard working AMD or Intel CPU based system, the 450 Watt power supply features an 80mm dual ball bearing fan to help keep the PSU cool. To ensure stable power delivery to the most demanding devices, the power supply features Quad+1 protection against short-circuit, over-power, over-voltage and no-load situations.

This high quality, professional-grade ATX12V 450W power supply is backed by StarTech.com's 3 year warranty and free lifetime technical support.

## Features

- ATX 2.01 compliant, including 2 12V power rails to deliver stable power to demanding devices; also includes a 20 pin ATX connector for compatibility with existing standards
- 8cm fan provides superior airflow for increased reliability (dual fans on 550W model)
- Premium EMI/RFI power filtration provides low noise and ripple for stable power delivery
- Quad+1 protection against: short circuit, over power, over voltage, no load, plus over current on both 12V rails
- Built-in protection from short circuit, over power, over voltage and no-load situations to prevent power supply damage
- Generous number of accessory connectors and a nickel-plated finish

## Package Contents

- 1 x Power supply
- 1 x Standard power cable
- 1 x Instruction Manual

# Installation

**CAUTION:** Computers contain sensitive electronic components that are easily damaged by static electricity and excessive shock. When handling the power supply and other components, ensure you are properly grounded using an anti-static mat or similar device. If anti-static equipment is not available, ground yourself by touching the exterior of the computer case or another large metal surface before handling any peripherals.

1. Installation of a power supply requires some mechanical skill and requires that you open your computer case to disconnect and reconnect wires. If you are unfamiliar with this kind of work, consider bringing your computer and new StarTech.com power supply to your local computer store for help.
2. Check the red switch on the rear of the power supply, next to the power cord plug. Be sure it is set to the correct voltage for your country. In North America, it should read "115". In Europe and Australia it should read "230". To change the switch, use a screwdriver in the notch of the switch and slide it to the opposite side. If you are unsure of the voltage used in your country, contact your electricity provider before proceeding.
3. If you are replacing an old power supply in your computer, ensure the computer is shut down and disconnect the power cord from the back of the old supply.
4. Open your computer case. In most designs, the case is opened by removing two or three screws at the rear of the case and then sliding the covering panel backward until it comes free. If your case is a tower style, ensure that you remove the panel that will expose the top of the computer's motherboard. This is generally the left-side panel. There are many different case designs, however, so if you are unsure of how to open your particular case, consult the user manual for your case or contact your local computer store for help.
5. With the computer case open, review the connectors being used from your old power supply. If you are building a new computer, review the connectors that you will need to use. Check the type of connector on your motherboard and use either the 24 or 20 pin ATX power connector (break away the additional 4 pins on the connector if your system uses a motherboard with a 20-pin connector).
6. Disconnect the old power supply connections from inside your computer. Hard disk drive, CD drive and floppy disk drive connectors disconnect by pulling on the connector. The motherboard connector(s) have a clip that must be pressed while pulling on the connector to release them. A rocking motion while pulling will aid in getting the connectors loose. Never pull on the wires of a connector to unplug it.
7. Check that all the wires from your old power supply are free. Remove the four screws on the rear of your old power supply to free it from the computer case.

- Support the power supply with one hand if it could fall while removing the last screw. (Such as in a tower style case.) Remove the power supply by sliding it back and then out through the side of your case.
8. Install your new power supply by positioning it through the side or top of your case (depending on your case style) and then back onto the power supply mounts. Check that the orientation with the screw holes in your case is correct; all four holes must be aligned. Support the power supply with one hand while threading a mounting screw through the back of the case and into the power supply. The screw should thread smoothly and should not require effort. Do not force it or you could damage the mounting holes. If the screw won't thread smoothly, remove it and check to ensure the mounting holes are correctly lined up. Repeat for the remaining three screws. Do not fully tighten any of the screws until they all have been threaded into their mounting holes. (Note: Consider Startech part SCREWTHUMB screws for easier installation.)
  9. Tie unused wires away from fans and other moving parts.
  10. Replace the case cover and secure it. You may wish to not replace the screws until after you have checked that all connections are working.
  11. Toggle the rear power switch on power supply to off. (The "0" symbol on the switch.) Connect the power cord to the power supply and plug it in to a grounded power outlet. (The power supply **MUST** be connected to a grounded outlet.) Toggle the rear power switch to on.
  12. Start your computer. You should hear its fans and devices immediately begin to run. If you do not, toggle the rear switch on the power supply to off, disconnect the power cord, open the case and check that all connectors are well seated and secure.
  13. When you have confirmed all connections are working, replace the screws in your case.
  14. Power supplies contain electrical and electronic components and should be disposed of properly. If you replaced an old power supply follow your city's rules for proper disposal of electronic equipment.

# Specifications

Total Output:	400W	450W	500W	550W
<b>Connectors:</b>				
<b>LP4</b>	4	6	6	6
<b>SP4</b>	2	2	2	2
<b>20/24-pin ATX Motherboard</b>	1	1	1	1
<b>ATX 12V 4-pin</b>	1	1	1	1
<b>SATA Power</b>	4	4	4	6
<b>PCI Express</b>	1	1	1	2
<b>TX3</b>	1	1	1	1
<b>Dimensions</b>	5.51 x 5.91 x 3.35"	5.51 x 5.91 x 3.35"	5.51 x 5.91 x 3.35"	5.51 x 5.91 x 3.35"
	140 x 150 x 86 mm	140 x 150 x 86 mm	140 x 150 x 86 mm	140 x 150 x 86 mm
<b>Weight</b>	4.20 lbs. (1.9 kg)	4.5 lbs (2.0 kg)	4.5 lbs (2.0 kg)	4.85 lbs (2.2 kg)

## DC Output

	<b>AC Input 115/230V</b>	<b>+3.3V</b>	<b>+5V</b>	<b>+12V1</b>	<b>+12V2</b>	<b>-12V</b>	<b>+5VSB</b>
<b>400W</b>	10/5.5A	30A	28A	14A	15A	1A	2.5A
<b>450W</b>	10/5.5A	30A	45A	17A	16A	1A	2.5A
<b>500W</b>	10/5.5A	30A	45A	18A	16A	1A	2.5A
<b>550W</b>	12/6A	30A	50A	18A	18A	1A	2.5A



# Technical Support

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For the latest drivers/software, please visit [www.startech.com/downloads](http://www.startech.com/downloads)

## Warranty Information

This product is backed by a three year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, 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.

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