

EPS12V Ver 2.91 Power Supply

650 Watt Dual Fan EPS12V Ver 2.91 80PLUS Power Supply

750 Watt Dual Fan EPS12V Ver 2.91 80PLUS Power Supply

850 Watt Dual Fan EPS12V Ver 2.91 80PLUS Power Supply

EPSP0W650PRO

EPSP0W750PRO

EPSP0W850PRO

Instruction Manual



Actual product may vary from photo

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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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Table of Contents

Introduction	1
Features	1
Before you begin	1
Package contents	1
Installation	2
Specifications	4
General Specifications	4
Technical Support	5
Warranty Information	5

Introduction

Thank you for purchasing a StarTech.com Dual Fan EPS12V Ver 2.91 80PLUS High Efficiency Power Supply. This SLi ready power supply is the perfect addition to advanced systems requiring added capabilities for stable operation, while balancing maximum energy efficiency.

Features

- 80PLUS certified to meet requirements of High (80% +) Efficiency at maximum (100%) load over specified AC voltage
- EPS12V 2.91 compliant to meet requirements of the latest Intel SSI specifications
- Active Power Factor Correction(APFC) improves voltage stability and provides environmentally friendlier power usage
- SLi compliant - Supporting NVIDIA® multi-GPU graphic card power requirements
- Compatible with Intel Pentium 4, Pentium D, Core 2 Duo and AMD Athlon 64 processor-based systems (single and dual core) conforming to standard ATX form factor
- Quad 12V rails providing dedicated voltage outputs and circuitry
- Remote On/Off Control

Before you begin

Package contents:

This package should contain:

- Dual Fan EPS12V Ver 2.91 80PLUS Power Supply **(1)**
- Power Cord **(1)**
- Instruction Manual **(1)**

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.



Please note: 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.

1. 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.
2. 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.
3. 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; if the motherboard connection requires a 20 pin connection, please bend or break the additional four pins away from the motherboard connector and insert appropriately. and use either the 24 or 20 pin ATX power connector on the power supply as appropriate.
4. 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.
5. 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.
6. 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.)

7. Tie unused wires away from fans and other moving parts.
8. 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.
9. 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.
10. 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.
11. When you have confirmed all connections are working, replace the screws in your case.
12. Power supplies contain electrical and electronic components and should be disposed of properly. If you are replacing a power supply, please follow your city's rules for proper disposal of electrical equipment.

Specifications

General Specifications

	EPSP0W650PRO	EPSP0W750PRO	EPSP0W850PRO
Regulatory certifications	FCC Class B, CE, ROHS, UL/CUL, TUV, CB Report		
Output Power	650 Watts	750 Watts	850 Watts
Form Factor	EPS12V & ATX12V		
Connectors	8-pin (EPS) (1) (20+4)-pin ATX split connector (1) 4-pin extended ATX for P4 (1) SATA(6) PCI-E (2) LP4 (6) SP4 (2)	8-pin (EPS) (1) (20+4)-pin ATX split connector (1) 4-pin extended ATX for P4 (1) SATA(6) PCI-E (4) LP4 (6) SP4 (2)	8-pin (EPS) (1) (20+4)-pin ATX split connector (1) 4-pin extended ATX for P4 (1) SATA(6) PCI-E (4) LP4 (6) SP4 (2)
Peak Total DC Output	730W; supported for min. 12 sec.	850W; supported for min. 12 sec.	930W; supported for min. 12 sec.
MTBF	100,000 hours @ 25 degrees C		
AC Input Voltage	110 – 220V (Normal range)		
Max. Inrush Current	60A@110Vac; 120A @220Vac @25 degrees C		
Efficiency	min. 80% at max. load; Max. Efficiency 85%		
Rise Time	0.1 to 25ms		
Operation Temperature	(w/ Humidity 10%~90% RH): 0~30° C@ Full Load 40° C @90% Rated Load 50° C @ 80% Rated Load		
Storage Temperature	20° - 80° C		
Product Dimensions	190 x 150 x 86 mm (L x W x H)		
Product Weight	2.75 kg	2.95 kg	3.15 kg

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

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, 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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