



VP650P

POWER SUPPLY

USER'S MANUAL



VP650P

The VP650P is crafted for quality, performance and incredible value. This entry-level solution gives you everything you need in a power supply. No twinkly lights or glittery paint jobs – a 120 mm fan for effective and quiet cooling, dual +12V rails for amazingly stable power, heavy-duty protection circuitry and Active Power Factor Correction (PFC) that saves money on corporate power bills. And it comes with all the assurance of Antec's AQ2 Antec Quality 2-year limited warranty. All the features, none of the waste: for builders that are strictly business, the VP650P is strictly power.

STANDARDS AND FEATURES

The connectors and power specifications of the VP650P PSU are all compatible with ATX12V v2.32 & EPS12V v2.92 specifications. This power supply also features Active Power Factor Correction (PFC), which improves the power factor value of the power supply by altering the input current wave shape, helping to power transmission across the grid.

SYSTEM PROTECTION

A variety of industrial-grade safety circuitry will help protect your computer: Over Current Protection (OCP), Over Voltage Protection (OVP), Short Circuit Protection (SCP), Over Power Protection (OPP) & Over Temperature Protection (OTP). Sometimes the PSU will “latch” into a protected state. You will need to power off the PSU and clear the fault before it will function again. There are no user-replaceable fuses in your VP650P.

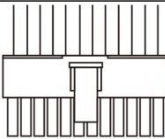
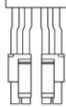


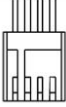

POWER OUTPUT

To see the output capacity and regulation for each different voltage, see table 1.

TABLE 1

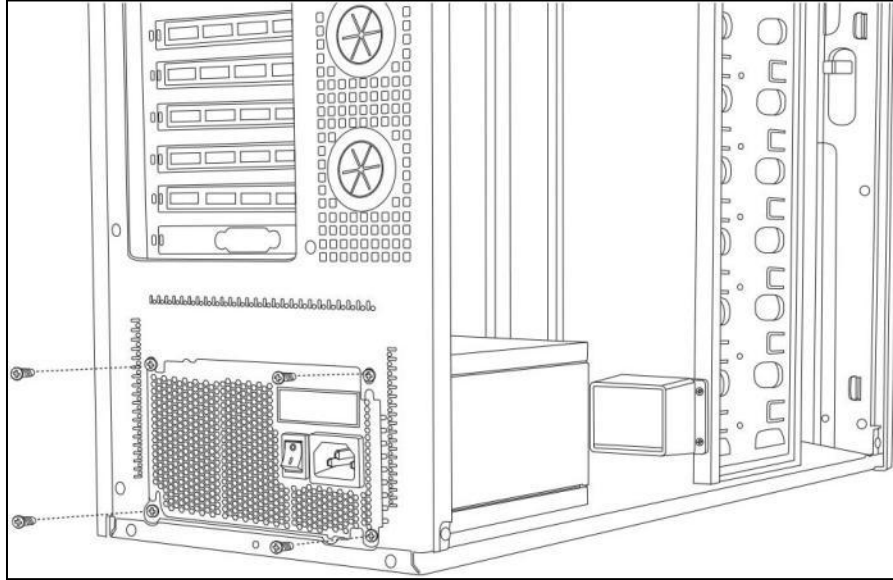
Output Voltage	Load Max.	Regulation	Ripple & Noise
+12V ₁	35A	± 5%	< 120 mV
+12V ₂	35A	± 5%	< 120 mV
+3.3V	24A	± 5%	< 50 mV
+5V	24A	± 5%	< 50 mV
-12V	0.5A	± 10%	< 120 mV
+5Vsb	2.5A	± 5%	< 50 mV

TABLE 2

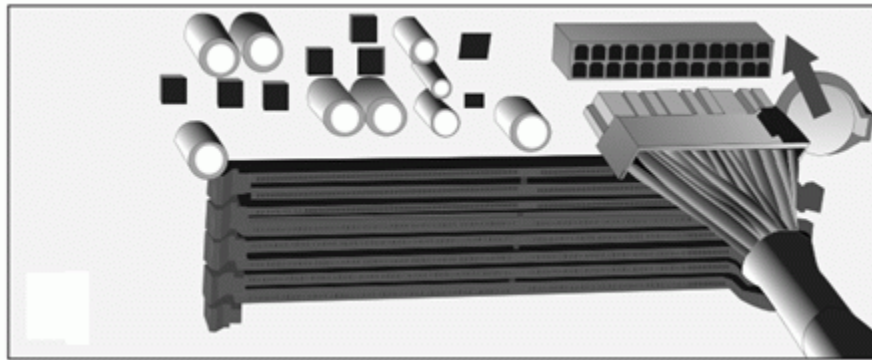
Cable Quantity	Connectors	Description
1	 X 1	24(20+4)-pin Motherboard
1	 X 1	8(4+4)-pin ATX12V/EPS12V
1	 X 2	8(6+2)-pin PCI-E
1	 X 3	Molex
	 X 1	FDD
1	 X 3	SATA

INSTALLATION

Install the PSU into either the top or bottom of your case with the four screws provided. Refer to your case manual if you are unsure where the power supply should be installed.

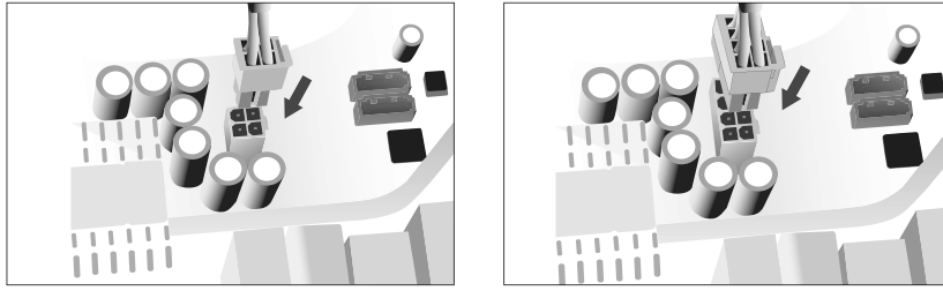


Connect the 24-pin main power connector to your motherboard.

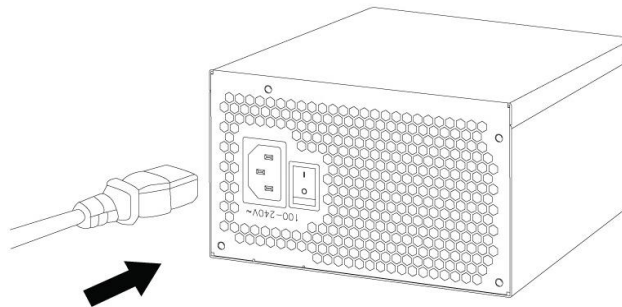


Connect the 8-pin or 4+4-pin connector for the CPU. If your motherboard has an 8-pin socket with a cover on some of the openings, we recommend that you remove the cover and use the 8-pin connector.

Note: Please also refer to your motherboards manual for any special instructions.



Connect the AC power cord to the power supply AC inlet. Be sure to use the heavy-duty cord supplied with your PSU.



PCI-E graphics cards use different amounts of power. For some, a single 6-pin connector is sufficient, making the hardwired connector the preferred choice. More powerful cards use multiple connectors, including the advanced 8-pin PCI-E connector. The 8-pin PCI-E connector on the PSU can be used as either a 6- or 8-pin connector.

Hard drives, optical drives (CD/DVD/BluRay™) and other accessories will use either the older 4-pin Molex connector or the newer 15-pin SATA connector. 4-pin Molex connectors have two black, one yellow and one red wire. The SATA connector has an additional orange power wire.

When you have all the connections secured, turn the switch on the PSU to the “|” position.



Technical Support:

www.antec.com/support

USA & Canada

1-800-22ANTEC nasupport@antec.com

Europe

+49-(0)40-226-139-22 eusupport@antec.com

Asia

+886 (0)800-060-696 apsupport@antec.com

Visit us on Facebook for contests, information & support

USA & Canada facebook.com/AntecInc

Europe facebook.com/AntecEurope

UK facebook.com/AntecUK

Australia & New Zealand facebook.com/AntecAU

India facebook.com/AntecIndia

Israel facebook.com/AntecIsrael

Philippines facebook.com/AntecPH

Antec, Inc.

47900 Fremont Blvd., Fremont, CA 94538 / USA

Tel: 510-770-1200 - Fax: 510-770-1288

www.antec.com

© 2011-2012 Antec, Inc. All rights reserved.

Specifications are subject to change without prior notice. Actual product(s) and accessories may differ from illustrations. Omissions and printing errors excepted. Content of delivery might differ in different countries or areas. Some trademarks may be claimed as the property of others.

Reproduction in whole or in part without written permission is prohibited.