

APEVIA

PREMIER

PREMIER SERIES POWER SUPPLY



650W Premier Power

850W Premier Power

1000W Premier Power

USER'S MANUAL

CONTENTS

1. Product Features.....	2
2. Product Specifications.....	3
3. Overall Performance.....	4
4. Protections.....	4
5. Dimensions.....	5
6. Cables & Connectors.....	5
7. Precautions.....	7
8. Information.....	7
9. Installation.....	8
10.Troubleshooting.....	9

1. Product Features

- a. Semi-modular GOLD power supply
- b. 80+ GOLD certified for 90%+ efficiency
- c. Addressable RGB lighting function: 15 selectable lighting modes
- d. Stable and reliable
- e. Cosmic black casing
- f. Supports single 12v output for higher power usage
- g. Supports Dual / Quad / Multi core CPU'S
- h. Ample +12V output, enhanced +12V current capability broadens utilization possibilities.
- i. Multi CPU technologies supported, 6-pin and 8-pin PCI-E connectors to support all GPU platforms.
- j. Built in 1x 135mm silent automatically thermal fan speed controlled RGB fan.
- k. Dimensions: 150mm x158mm x 86mm (5.9"x 6.2"x 3.4") W x L x H
- l. Heavy-duty protections, including OVP (Over Voltage Protection) OPP (Over Power Protection), SCP (Short Circuit Protection)
- m. Built-in APFC (Active Power Factor Correction) rates> 0.9
- n. DC to DC converter design, provides superior dynamic response, greater system stability and maximizes the 12V DC rail output

2. Product Specifications:

- a. AC input voltage: 100-240V
- b. AC input frequency: 60Hz/50Hz
- c. Operating temperature: The power supply should be operated in an ambient temperature of 0°C to 40°C
- d. DC output:

Model	650W Premier Power				
AC Input	100-240V , 8A / 4A , 50-60Hz				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	54.1A	0.3A	3A
Combined Power	100W		650W	3.6W	15W
Total Power	650W				
Model	850W Premier Power				
AC Input	100-240V , 10A / 5A , 50-60Hz				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	66A	0.3A	3A
Combined Power	100W		850W	3.6W	15W
Total Power	850W				
Model	1000W Premier Power				
AC Input	100-240V , 15A / 7.5A , 50-60Hz				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	83.3A	0.3A	3A
Combined Power	100W		1000W	3.6W	15W
Total Power	1000W				

3. Overall Performance:

- a. Hold up time: 14ms at full load normal line input voltage.
- b. Switching frequency: 50KHz at normal line input.
- c. Stability: +/- 5% for 24KHR after warm up.

4. Protections:

- a. Under voltage protection.

If an under voltage fault occurs, the supply will latch all DC outputs into a shutdown state when +12V,+5V & +3.3V outputs under 60% of its maximum value.

- b. Over voltage protection

Output	Minimum	Nominal	Maximum	Unit
+12 VDC	13.4	15.0	17	Volts
+5 VDC	5.70	6.3	7.0	Volts
+3.3 VDC	3.70	4.2	4.8	Volts

- c. Short circuit

An output short circuit is defined as any output impedance less than 0.1 ohms. The power supply shall shut down and latch off for shorting the +3.3 VDC,+5 VDC or +12 VDC rails.

Shorts between main output rails and +5VSB shall not cause any damage to the power supply. The power supply shall either shut down and latch off or fold back for shorting the negative rails.+5VSB must be capable of being shorted indefinitely, but when the short is removed, the power supply shall recover automatically or by cycling PS_ON#. The power supply shall be capable of withstanding a continuous short-circuit to the output without damage or overstress to the unit.

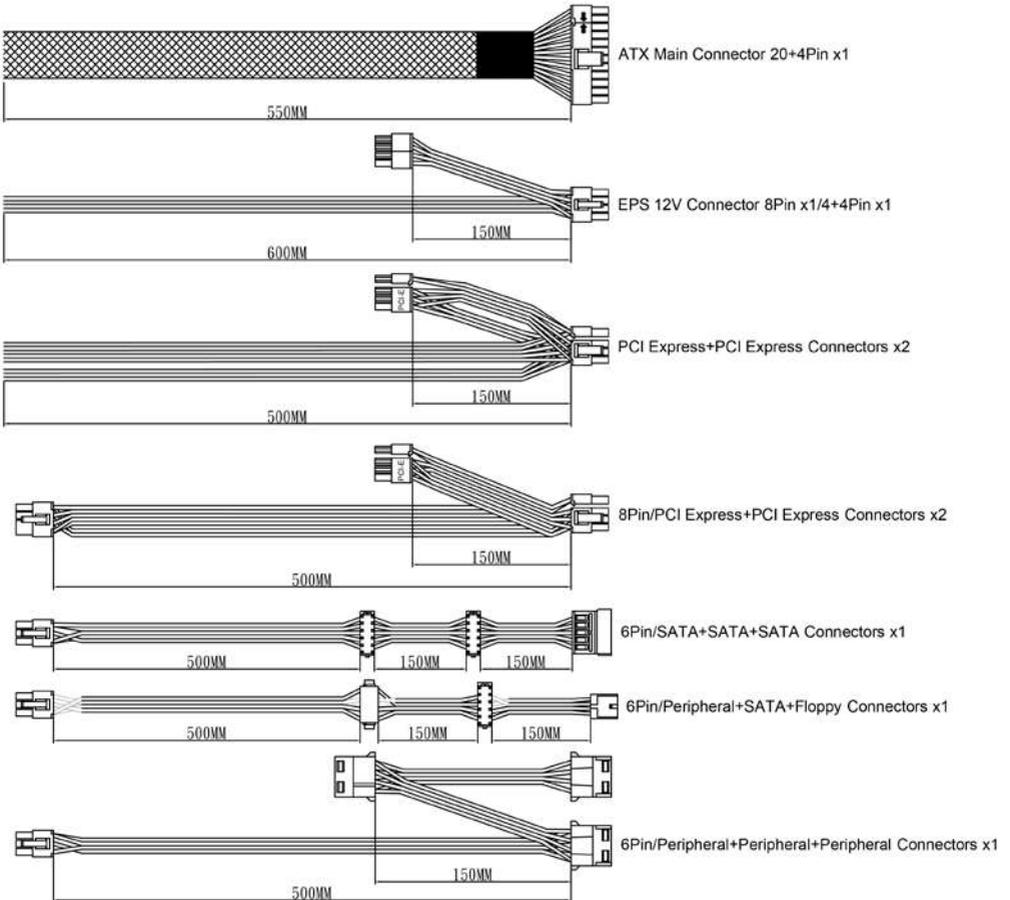
d. Over-power protection

The power supply will be shut down and latch off when output power is 110%~150%

5. Dimensions:

150mm x 158mm x 86mm (5.9" x 6.2" x 3.4") W x L x H

6. Description of Connectors:



7. Precautions:

Warning! To avoid the risk of electrical shock, unauthorized persons need the following precautions:

- a. Do not open the power supply case!
- b. Avoid exposure to humidity.

8. Information:

Thank you for purchasing a high-quality Apevia product! Please visit our website at <http://www.apevia.com> for complete warranty information and future support for your product. For the latest release information, or should you have any questions, please visit our website, or contact us at:

Support Phone Number: 1-909-718-0789

Support E-mail: support@apevia.com

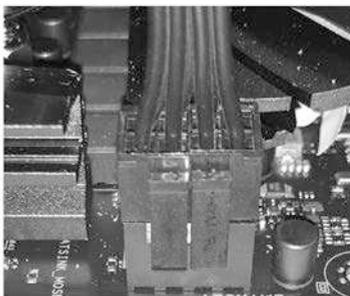
9. Installation:

STEP 1



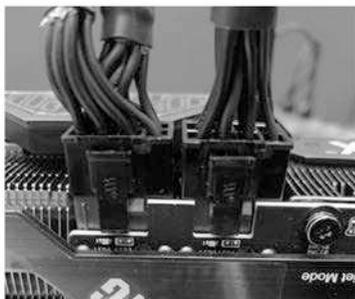
Plug the 24-pin connector onto the motherboard.

STEP 2



4-pin or 8-pin (4+4pin) + 12V connector used for CPU only.

STEP 3



PCI express connector for video card only.

STEP 4



SATA connectors used for hard drive, CD-ROM and cooling fans.

10. Troubleshooting:

If power supply fails to operate properly, please check the following before requesting for an RMA:

- a. Please make sure the power supply and power cord is connected properly.
- b. Please make sure the power cord is plugged into the power socket.
- c. Please make sure the power supply I/O button is switched to the “ I ” position.
- d. Please check if all the connectors (motherboard, floppy and peripherals) are connected properly.
- e. Please allow 5 seconds interval before turning the power on again when power supply is switched off manually (setting the I/O switch to the “ O ” position)

PREMIER

PREMIER SERIES POWER SUPPLY

650W Premier Power

850W Premier Power

1000W Premier Power

▲PEVIA



www.apevia.com