



PRESTIGE

Power Supply



600W Prestige Power

800W Prestige Power

1000W Prestige Power

USER'S MANUAL

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1. Product Features

- a. **Stable and reliable**
- b. **Cosmic black casing**
- c. **Supports single 12v output for higher power usage**
- d. **Supports Dual / Quad / Multi-Core CPUs**
- e. **Ample +12 V Output, enhanced +12 V current capability broadens utilization possibilities.**
- f. **Multi-GPU technologies supported, 6-Pin and 8-Pin PCI-E connectors to support all GPU platforms**
- g. **Built in 1 x 135mm silent automatically thermal fan speed controlled black fan.**
- h. **Dimensions : 150mm x 86mm x 158mm (5.9" x 3.4" x 6.2") W x L x H**
- i. **Heavy-duty protections, including OVP (Over Voltage Protection), OPP (Over Power Protection), SCP (Short Circuit Protection)**
- j. **Universal AC input by active PFC (99%RF Typical)**
- k. **DC to DC converter design, provides superior dynamic response, greater system stability and maximizes the 12 V DC rail output.**

2. Product Specifications:

- a. AC input voltage: 115-230V
- 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	600W Prestige Power				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	50A	0.3A	2.5A
Combined Power	100W		600W	3.6W	12.5W
Total Power	600W				
Model	800W Prestige Power				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	66A	0.3A	2.5A
Combined Power	100W		792W	3.6W	12.5W
Total Power	800W				
Model	1000W Prestige Power				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	83A	0.3A	2.5A
Combined Power	100W		996W	3.6W	12.5W
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

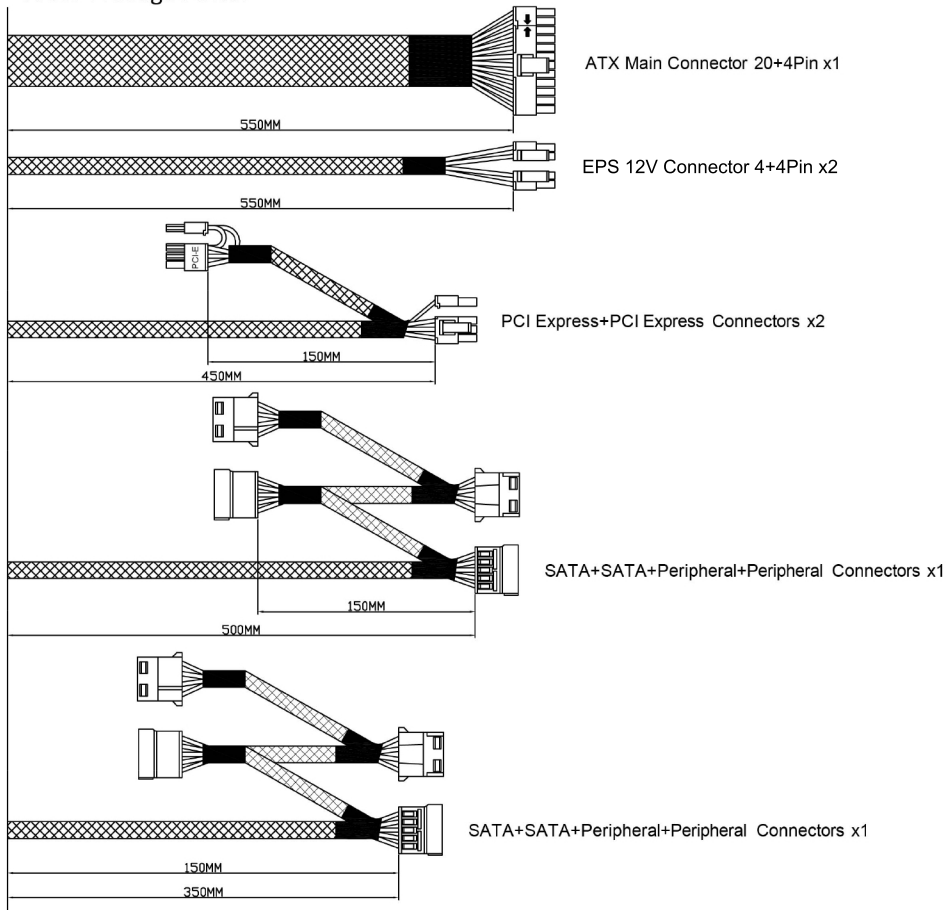
The power supply will be shut down and latch off when output power is 110%~150%

5. Dimensions:

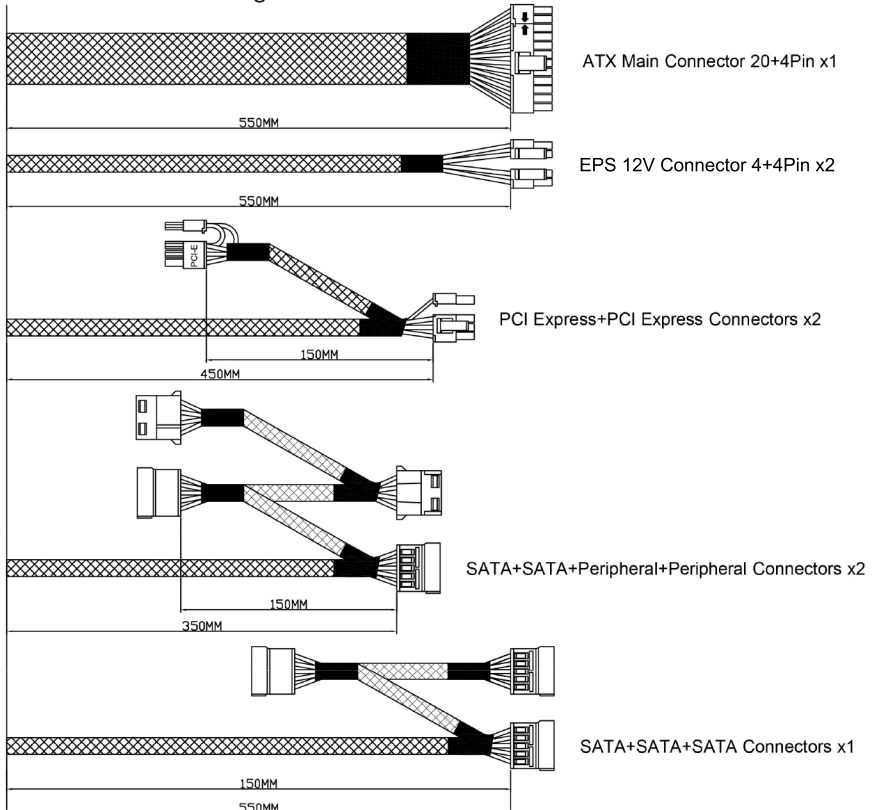
150mm x 86mm x 158mm (5.9" x 3.4" x 6.2") W x L x H

6. Description of Connectors:

600W Prestige Power



800W & 1000W Prestige Power



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. Before turning on, please make sure that the input voltage of the red RMS side switch on the power supply corresponds to the power voltage given in your environment.
(USA & Canada: 115V; Europe, Central and South America: 230V).
- c. Avoid exposure to humidity.

8. Information:

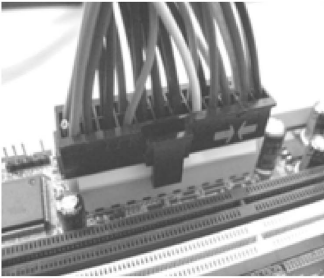
Thank you for purchasing a high-quality Apevia product! Please visit our website at <http://www.apevia.com> for complete warranty information and future support for your product. For the latest release information, or should you have any questions, please visit our website, or contact us at:

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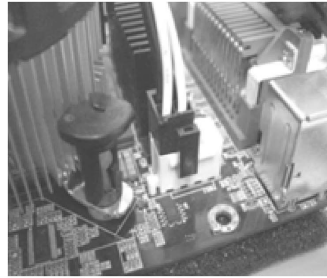
9. Installation:

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



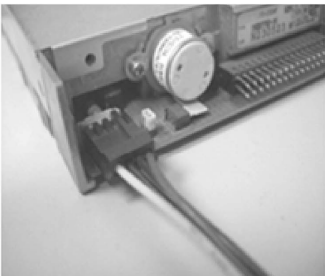
PCI express connector for video card only.

STEP 4



4-pin molex connectors used for hard drive, CD-ROM and cooling fans.

STEP 5



4-pin floppy connector used for floppy disk or zip drives.

STEP 6



SATA connectors used for SATA hard drives.

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)

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