



Signature

POWER SUPPLY



900W Signature Power

1050W Signature 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 ATX 12v 2.3 version
- e. Supports Dual/Quad Core CPUs
- f. Hybrid modular design allows you to use only the cables you need.

You get a cleaner look and unobstructed airflow for your PC system.
- g. Built in 1 x 135mm blue led fan - extremely silent with automatically thermal controlled.
- h. Dimensions : 150mm / 5.91”(W) x 158mm / 6.22”(L) x 86mm / 3.39”(H)
- i. Heavy duty protections including (need a space in between) OVP (Over Voltage Protection), OPP (Over Power Protection), UVP (Under Voltage Protection) and SCP (Short Circuit Protection)
- j. Universal AC input by active PFC (99%PF Typical)
- k. Double Forward Converter Design

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	900W Signature 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	120W		792W	3.6W	12.5W
Total Power	900W				
Model	1050W Signature Power				
AC Input	115-230VAC , 10A/5A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	20A	78A	0.3A	2.5A
Combined Power	120W		936W	3.6W	12.5W
Total Power	1050W				

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.

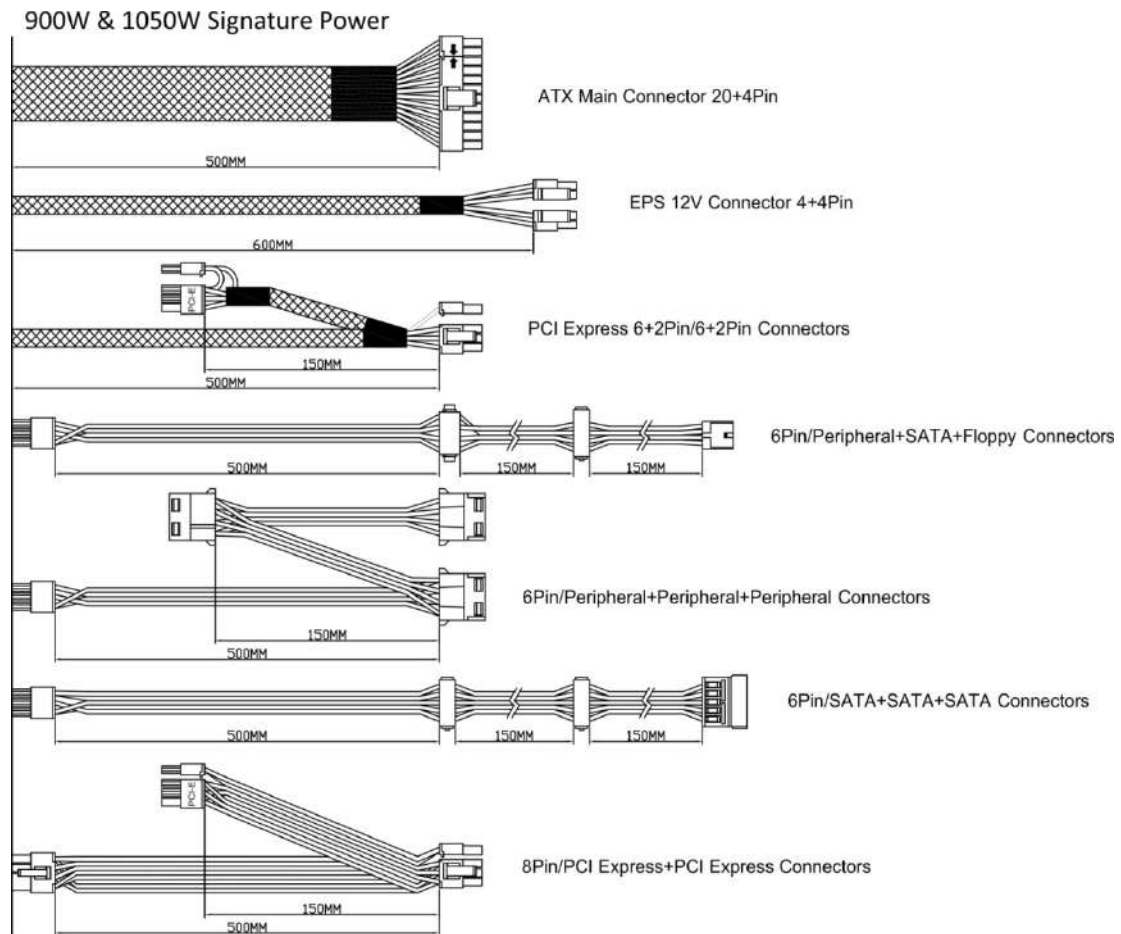
d. Over-power protection

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. 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:

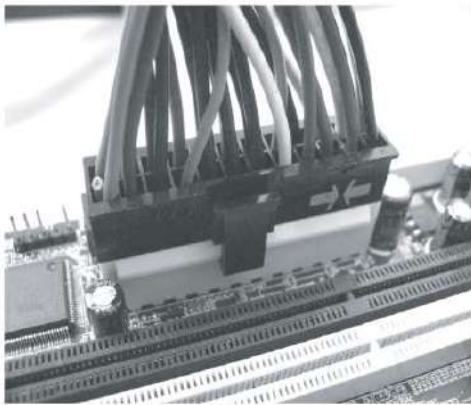
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Support E-mail: support@apevia.com

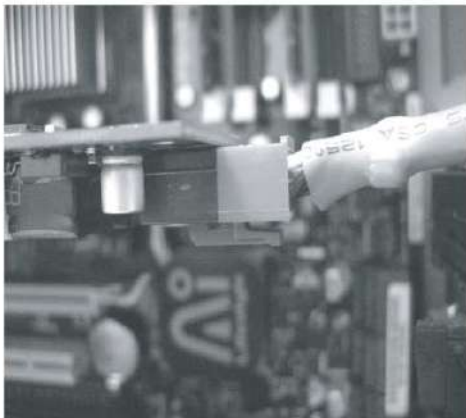
9. Installation:

STEP 1



Plug the 24-Pin connector onto the motherboard.

STEP 3



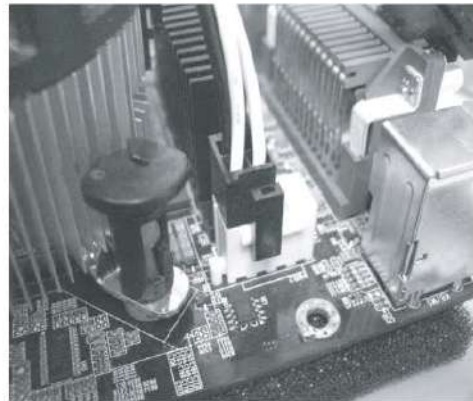
PCI Express connector for video card only.

STEP 5



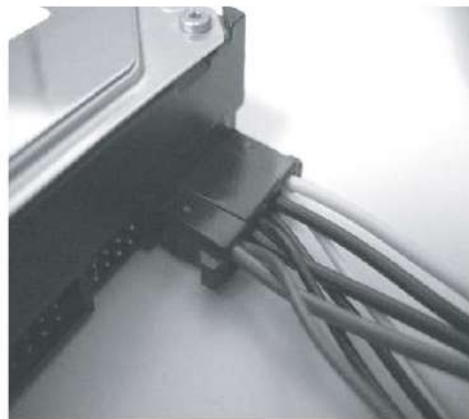
4-Pin Floppy connector used for Floppy Disk or zip Drives.

STEP 2



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

STEP 4



4-Pin Molex connectors used for Hard Drive, CD-ROM and Cooling Fans.

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:

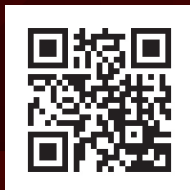
- a. Please make sure the power supply and power cord are connected properly.
- b. Please make sure the power cord is plugged into the power socket.
- c. Please make sure the power supply I/O button is switched to the “ I ” position.
- d. Please check if all the connectors (motherboard, floppy and peripherals) 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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