



# Beast

## POWER SUPPLY

ATX-BT550W

ATX-BT650W

ATX-BT700W



### 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. All cables are sleeved
- g. Built in 1 x 12cm extremely silent automatically thermal fan  
speed controlled blue LED fan
- h. Dimensions:  
  
550W: 150mm / 5.91" (W) x 140mm / 5.51" (L) x 86mm / 3.39" (H)  
  
650W & 700W: 150mm / 5.91" (W) x 158mm / 6.22" (L) x 86mm / 3.39" i.  
  
Heavy duty protections including OVP (Over Voltage Protection)  
  
,OPP (Over Power Protection), UVP (Under Voltage Protection)  
  
and SCP (Short Circuit Protection)
- j. 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:

<b>Model</b>	ATX-BT550W				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	16A	16A	40A	0.3A	2.5A
Combined power	100W		480W	3.6W	12.5W
Total Power	550W				
<b>Model</b>	ATX-BT650W				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	17A	16A	49A	0.3A	2.5A
Combined power	100W		588W	3.6W	12.5W
Total Power	650W				
<b>Model</b>	ATX-BT700W				
AC Input	115-230VAC , 8A/4A , 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	17A	17A	53A	0.3A	2.5A
Combined power	100W		636W	3.6W	12.5W
Total Power	700W				

### 3. Overall Performance:

- a. Total output power: full load at normal line input voltage.
- b. Hold up time: 17ms at full load normal line input voltage.
- c. Switching frequency: 50KHz at normal line input.
- d. Stability: +/- 5% for 24KHR after warm up.

### 4. Protection:

- 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 of 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%

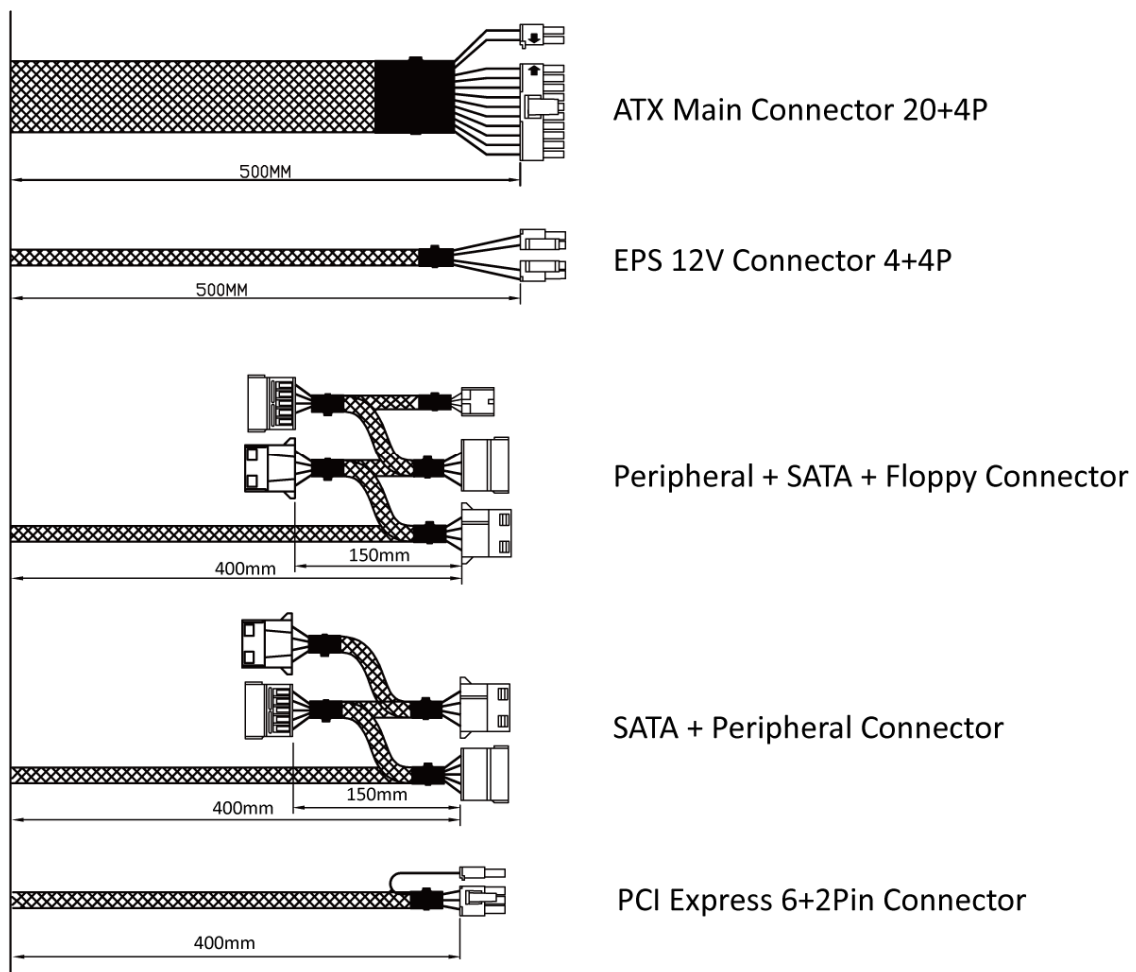
## 5. Dimensions:

150mm x 140mm x 86mm (5.9" x 5.5" x 3.4") W x L x H

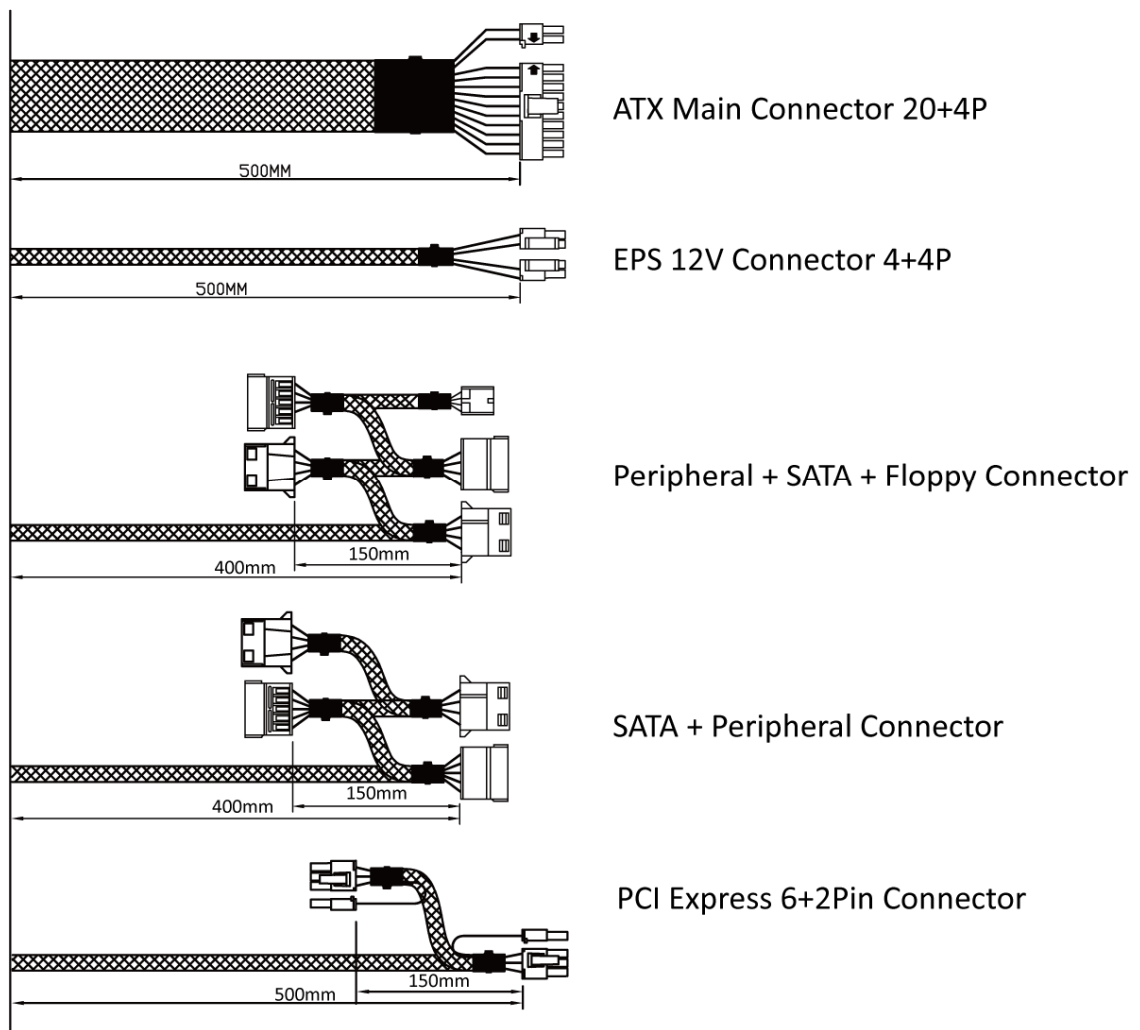
650W & 700W: 150mm x 158mm x 86mm (5.9" x 6.2" x 3.4") W x L x H

## 6. Description of Connectors:

### ATX-BT550W



# ATX-BT650W & ATX-BT700W



## 7. Precautions:

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

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

## 8. Information:

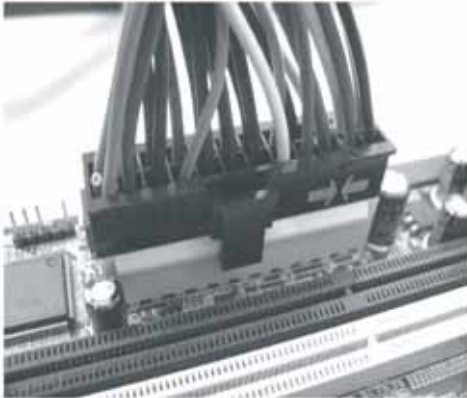
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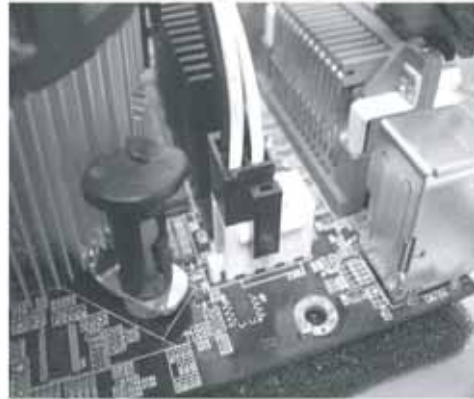
## 9. Installation:

### STEP 1



Plug the 24-Pin connector onto the motherboard.

### STEP 2



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

### STEP 3



PCI Express connector for video card only.

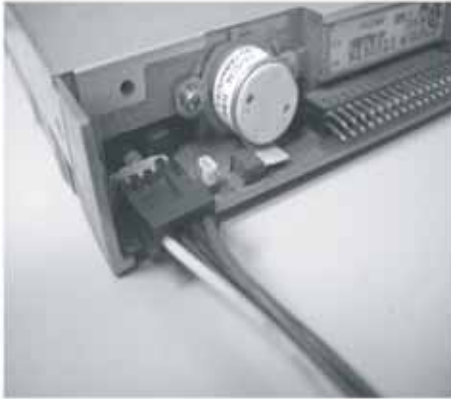
### STEP 4



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



## STEP 5



4-Pin Floppy connectors 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 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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