(148\*210 mm)封面彩印250G铜版纸+亚胶-内页80G书纸单黑印刷



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## 1. Product Features

#### A. Modular & Clean Build

Semi / Fully modular with flat cables for improved airflow and simplified cable management.

#### **B. Stable Power Delivery**

Active PFC and Full Bridge 12V synchronous rectification ensure safe, consistent performance.

#### C. Fast Dynamic Response

DC-to-DC converter design maximizes +12V rail output and improves system stability.

#### D. Powerful +12VRail

Robust +12V output with enhanced current handling for broader hardware compatibility.

## E. Broad Platform Support

Supports multi-CPU setups with 6-pin and 8-pin PCIe connectors for full GPU compatibility.

#### F. Intelligent Cooling

135mm silent black fan with automatic thermal speed control for quiet, efficient airflow.

#### G. Compact Size

Dimensions: 150 x 158 x 86mm (5.9" x 6.2" x 3.4").

#### H. Full Protection Suite

Includes OVP (Over Voltage Protection), OPP (Over Power Protection), and SCP (Short Circuit Protection) for safe, reliable operation under all conditions.

# 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 SOUL Power				
AC Input	100-240VAC,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	750W SOUL Power				
AC Input	100-240VAC,10A,50/60Hz				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5VSB
Max Output Current	20A	20A	62.5A	0.3A	3A
Combined Power	100W		750W	3.6W	15W
Total Power					

## 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 VDCor+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.

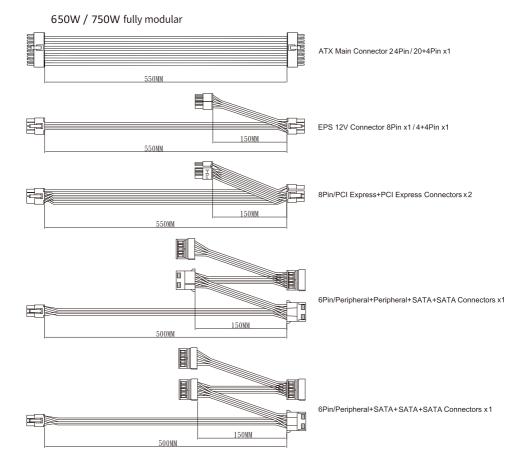
### d. Over-power protection

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 <a href="http://www.apevia.com">http://www.apevia.com</a> 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 3



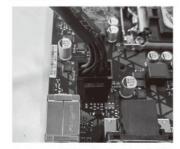
PCIe 5.0 connector to the most advanced graphics cards

# STEP 5



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

## STEP 2



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

## STEP 4



PCI express connector for video card only.

# 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)



650W SOUL Power

750W SOUL Power

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