APEVIA

# GALAXY

POWER SUPPLY


GALAXY 850W

GALAXY 1000W

GALAXY 1200W

USER'S MANUAL

# CONTENTS

# 1. Product Features

A. 80+ GOLD certified for 90%+ efficiency

B. Next-Gen GPU Ready

Compliant with ATX 3.1 and PCIe 5.1, includes a 16-pin PCIe cable delivering up to 600W for NVIDIA® GeForce RTX™ 40/50 Series GPUs.

C. Modular & Clean Build

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

D. Stable Power Delivery

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

E. Fast Dynamic Response

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

F. Powerful +12VRail

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

G. Broad Platform Support

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

H. Intelligent Cooling

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

I. Compact Size

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

J. 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 | GALAXY 850W | | | | |
|---|---|---|---|---|---|
| AC Input | 100-240VAC,10A/5A,50-60Hz | | | | |
| DC Output Voltage | +3.3V | +5V | +12V | -12V | +5Vsb |
| Max Output Current | 20A | 20A | 70.8A | 0.3A | 3A |
| Combined Power | 100W | | 850W | 3.6W | 15W |
| Total Power | 850W | | | | |
| **Model** | GALAXY 1000W | | | | |
| AC Input | 100-240VAC,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 | | | | |
| **Model** | GALAXY 1200W | | | | |
| AC Input | 100-240VAC,15A/7.5A,50-60Hz | | | | |
| DC Output Voltage | +3.3V | +5V | +12V | -12V | +5Vsb |
| Max Output Current | 20A | 20A | 100A | 0.3A | 3A |
| Combined Power | 100W | | 1200W | 3.6W | 15W |
| Total Power | 1200W | | | | |

## 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

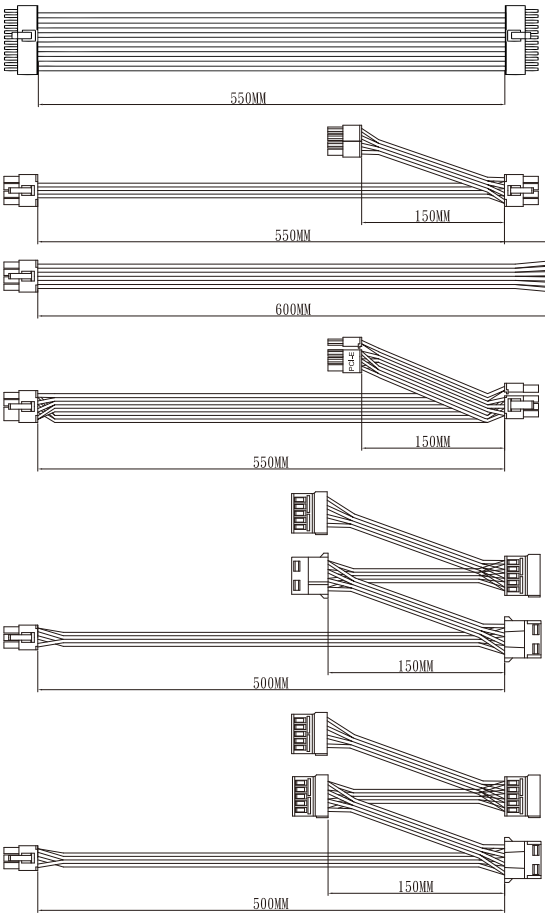
The power supply will be shut down and latch off when output power is 110%~150%

## 5. Dimensions:

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

## 6. Description of Connectors:

850W / 1000W fully modular




ATX Main Connector 24Pin / 20+4Pin x1

EPS 12V Connector 8Pin x1 / 4+4Pin x1

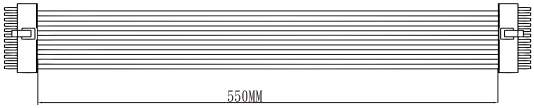
PCI Express 5.1 12VHPWR 12+4pin x1

8Pin/PCI Express+PCI Express Connectors x2-850W
8Pin/PCI Express+PCI Express Connectors x3-1000W

6Pin/Peripheral+Peripheral+SATA+SATA Connectors x1

6Pin/Peripheral+SATA+SATA+SATA Connectors x1

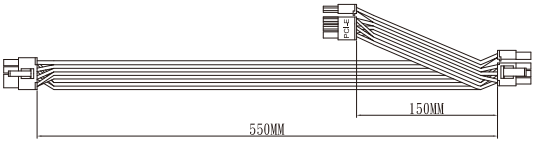
## 1200W full-modular



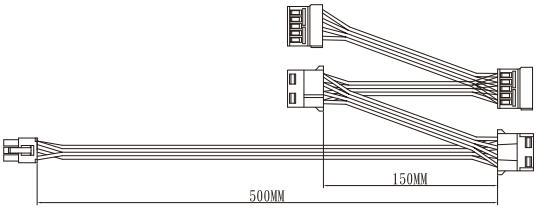

ATX Main Connector 24Pin / 20+4Pin x1


EPS 12V Connector 8Pin x1 / 4+4Pin x2

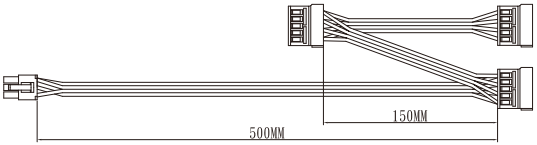

PCI Express 5.1 12VHPWR 12+4pin x1




8Pin/PCI Express+PCI Express Connectors x3




6Pin/Peripheral+Peripheral+SATA+SATA Connectors x2




6Pin/SATA+SATA+SATA Connectors x1

## 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

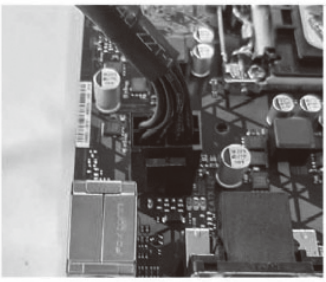
Support E-mail: support@apevia.com

## 9. Installation:

**STEP 1**

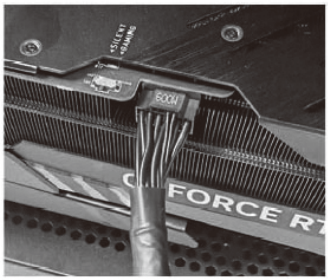
Plug the 24-pin connector onto the motherboard.

**STEP 2**



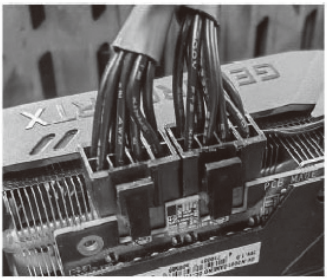
4-pin or 8-pin (4+4pin) + 12V connector used for CPU only.

**STEP 3**



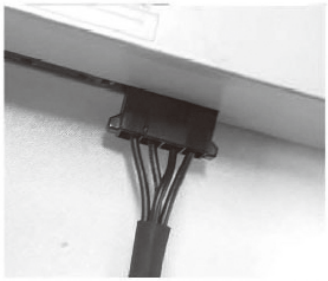
**PCIe 5.1 connector to the most advanced graphics cards**

**STEP 4**



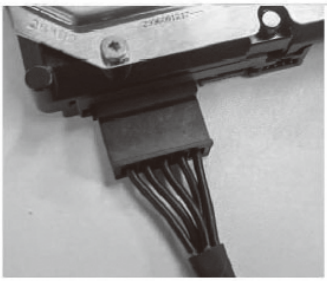
PCI express connector for video card only.

**STEP 5**



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 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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