

# USER MANUAL: ITX-PFC400W

## ITX-PFC400W Fully Modular ITX Power Supply

### 1. PRODUCT OVERVIEW

Thank you for choosing the **Apevia ITX-PFC400W** power supply. This unit is a high-performance, fully modular, full-range active PFC (100-240V) power supply.

It is designed as a standard-size Mini-ITX / Flex-ATX unit, ideal for compact and versatile computing applications.

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### 2. SYSTEM REQUIREMENTS & COMPATIBILITY

- **Form Factor:** Compatible with PC systems requiring ITX / Flex-ATX power supplies.
  - **Motherboards:** Supports standard 24-pin ATX and modern CPU power requirements.
  - **Input Voltage:** Full Range Active PFC 100-240V (automatic adjustment).
  - **Hardware Clearance:**
    - **Dimensions:** **165.6mm x 81.8mm x 41.2mm** (L x W x H).
    - **Modular Design:** Use only the modular cables provided with this unit to avoid hardware damage.
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### 3. INSTALLATION STEPS

- **Safety First:** Shut down your PC and disconnect it from the power outlet before starting.
  - **Mounting:** Securely mount the ITX-PFC400W into your case using the appropriate screws.
  - **Modular Cable Connection:**
    - Connect the required modular cables to the PSU first.
    - Plug the **20+4 pin** main connector into the motherboard.
    - Plug the **8-pin (4+4)** CPU connector into the motherboard.
    - Plug the **6+2 pin** PCI-E connector into the graphics card if required.
  - **Final Check:** Ensure all cables are firmly seated before reconnecting the AC power.
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## 4. TECHNICAL SPECIFICATIONS

<b>AC INPUT</b>	<b>100-240VAC, 50-60Hz (Full Range Active PFC)</b>
<b>DC OUTPUT</b>	<b>+3.3V</b>
<b>MAX CURRENT</b>	<b>12A</b>
<b>TOTAL POWER</b>	<b>400W</b>

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## 5. TROUBLESHOOTING

- **System fails to power on:**
    - Verify the AC power cord is fully inserted into the wall and the PSU.
    - **Crucial:** The PSU will not start simply by plugging it in; it must be correctly connected to the motherboard.
    - Check that all modular cables are securely "clicked" into their ports.
  - **Unstable Operation:**
    - Ensure system power draw does not exceed the **400W** rating.
    - Confirm the **40mm cooling fan** is not obstructed and has adequate airflow.
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## 6. SAFETY & MAINTENANCE

- **Do Not Open:** There are no user-serviceable parts inside. Opening the unit voids the warranty.
  - **Environment:** Keep the PSU away from liquids, high humidity, and extreme temperatures.
  - **Protection:** This unit includes OVP, OLP, OCP, OTP, and SCP for your system's safety.
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## 7. CONNECTOR PINOUT SPECIFICATIONS

### A. 20+4 Pin Main Power Connector

Used to power the motherboard. The 4-pin section can be detached to support older 20-pin motherboards.

- Standard: ATX12V v2.4
- Configuration: 20-pin fixed + 4-pin detachable.
- Function: Provides +3.3V, +5V, +12V, and standby power to the system.

### **B. 8-pin (4+4) CPU +12V Power Connector**

Provides dedicated power to the processor.

- Configuration: Can be used as a solid 8-pin or separated into two 4-pin (P4) connectors.
- Installation: Push one 4-pin section down and the other up to separate for motherboards requiring only a 4-pin CPU input.

### **C. 8-pin (6+2) PCI-Express Connector**

Dedicated power for high-performance Graphics Processing Units (GPUs).

- Configuration: 6-pin main connector with a detachable 2-pin section.
- Compatibility: Supports both 6-pin and 8-pin PCI-E power sockets.

### **D. SATA Power Connectors**

Used for modern storage and optical drives.

- Support: SSDs, HDDs, and SATA Optical Drives.
- Voltage: Provides +3.3V, +5V, and +12V DC output.

### **E. 4-Pin Peripheral (Molex) Connectors**

Used for legacy hardware and cooling accessories.

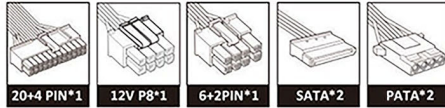
- Application: Case fans, older IDE hard drives, and liquid cooling pumps.
- Design: Standard 4-pin "Male" and "Female" pass through compatibility.

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## **8. SUPPORT & CONTACT**

For technical assistance, please visit our website or contact us via email:

- Web: [www.apevia.com](http://www.apevia.com)
- Email: [support@apevia.com](mailto:support@apevia.com)



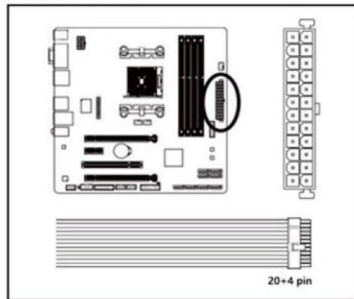
20+4 PIN Exposed (385mm)\* 1  
 12V P8 Exposed (385mm)\* 1  
 PCIe 6+2PIN Exposed (385mm)\* 1  
 PATA Exposed (385mm)+PATA(185mm)+SATA(185mm)  
 +SATA(185mm)

Total : (20+4P\*1, P8(4+4PIN)\*1+PCIe6+2P\*1, SATA\*2, PATA\*2)

AC Input	100-240VAC, 10A/4A, 50-60HZ				
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	12A	12A	28A	0.3A	2.5A
Combined Power	90W		336W	3.6W	12.5W
Total Power	400W				

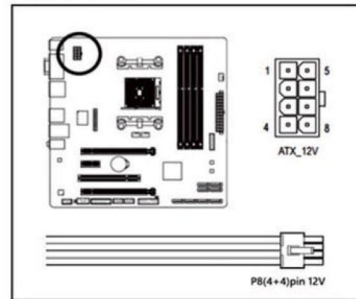
## Installation:

### STEP 1



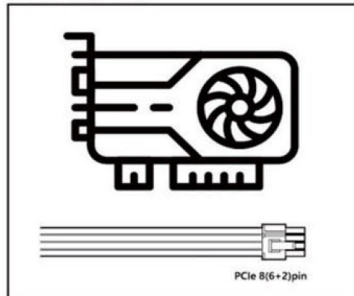
Plug the 20pin/24pin connector to the motherboard.

### STEP 2



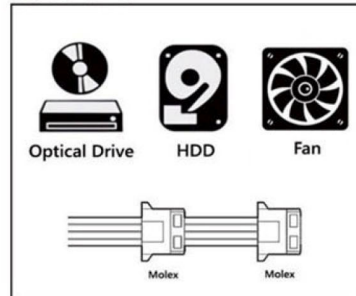
Plug in the 8pin/4+4pin connector to the motherboard.

### STEP 3



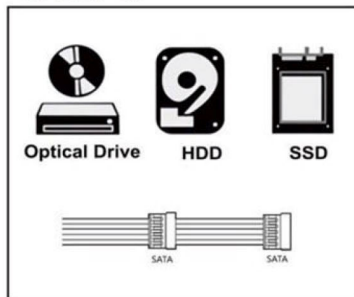
Plug in the PCIe 8pin/6+2pin connector to the graphics card .

### STEP 4



Plug in the necessary MOLEX to any optical drives / hard drives / fans you have installed on your computer.

### STEP 5



Plug in the necessary SATA to the optical drives / hard drives you have installed on your computer.