

**P|| SERIES**

**P25011**



User Manual



# Product Story

The revolutionary P250II is the flagship of the PII series. This robust design meets ATX 3.1 and PCIe 12V-2x6 specifications, delivering up to 2500 watts of power. Engineered for high-demand applications, it is ideal for AI-intensive tasks and high-power workloads. The P250II is 230V EU® Platinum certified and comes with a 10-year warranty, ensuring exceptional performance and reliability.



- Fully Meets the Newest Generation (ATX3.1) of Intel's PSDG
- Includes PCIe 12V-2x6, 16 Pin Connector with High-Quality 16 AWG cable
- Fully Modular with High Quality Flat Cables
- Highly Reliable Japanese Aluminium Electrolytic Capacitors
- Multi-Protection Safeguards (OCP, OVP, UVP, SCP, OTP, OPP)
- 10-Year Warranty

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| Model                                         | P250II                                                   |
| Model Number                                  | IW-PS-PII2500W                                           |
| Total Power                                   | 2500W@200-240Vac<br>1650W@115-240Vac<br>1350W@100-240Vac |
| Materials                                     | SECC                                                     |
| Type                                          | ATX12V V3.1                                              |
| Cable Management                              | Fully Modular                                            |
| PFC                                           | Active PFC (> 0.95)                                      |
| Efficiency                                    | 80 PLUS® 230V EU Platinum (Up to 92%)                    |
| MTBF (Hours)                                  | >100,000 hrs.                                            |
| AC Input                                      | 100-240Vac, 20-15A, 50-60Hz                              |
| Fan                                           | 135 mm Double Ball Bearing Fan                           |
| Typical Load Fan Noise (dBA)<br>(50% Loading) | < 25 dB(A)                                               |
| Operating Temperature Range (°C)              | 0 - 50°C                                                 |
| Full Protection                               | OCP / OVP / UVP / SCP / OTP / OPP                        |
| Safety Certifications                         | cTUVus / TUV / CB / CE / FCC / EAC / RCM / BSMI / UKCA   |
| Product Dimensions (L x W x H)                | 200 x 150 x 86 mm                                        |
| Package Dimensions (L x W x H)                | 395 x 245 x 105 mm                                       |
| Net Weight                                    | 4.1 kg / 9.02 lb                                         |
| Gross Weight                                  | 4.7 kg / 10.34 lb                                        |
| Warranty                                      | 10 years                                                 |

| Model  | DC OUTPUT           | +12V                        | +5V  | +3.3V | -12V | +5VSB | Total Power                                              |
|--------|---------------------|-----------------------------|------|-------|------|-------|----------------------------------------------------------|
|        | AC INPUT            | 100-240Vac, 20-15A, 50-60Hz |      |       |      |       |                                                          |
| P250II | Max. Output Current | 208.3A                      | 22A  | 22A   | 0.5A | 3A    | 2500W@200-240Vac<br>1650W@115-240Vac<br>1350W@100-240Vac |
|        | Max. Combined Power | 2500W                       | 120W |       | 6W   | 15W   |                                                          |

\* InWin products comply with RoHS regulations.

\* Specifications may vary based on different regions.

# Package Contents

P|| SERIES

# P250||



Color Box



PII SERIES P250II



Modular Cables Box



Motherboard 20+4 Pin



CPU 8 (4+4) Pin



PCIe 8 (6+2) Pin



PCIe 12V-2x6



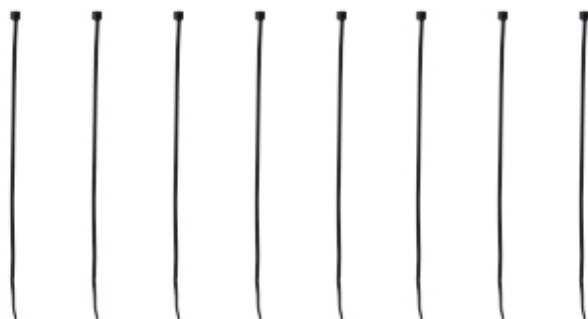
Peripheral 4 Pin



SATA



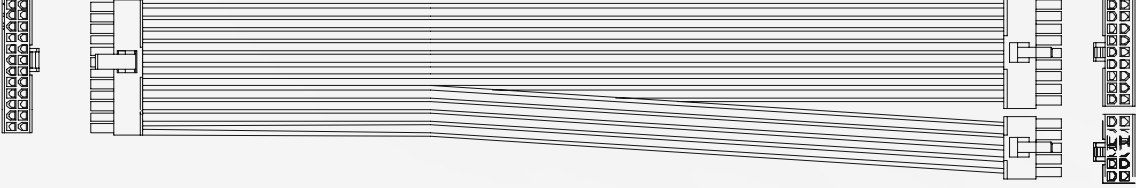
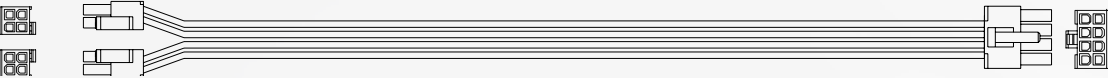
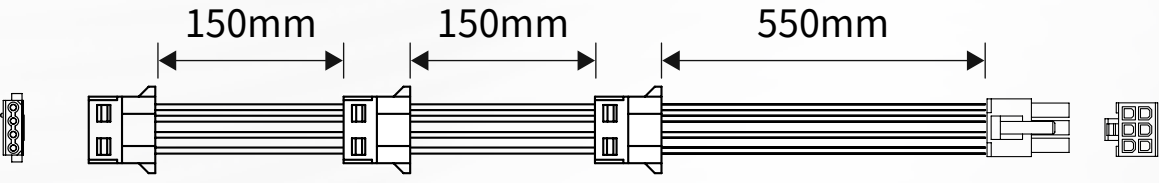
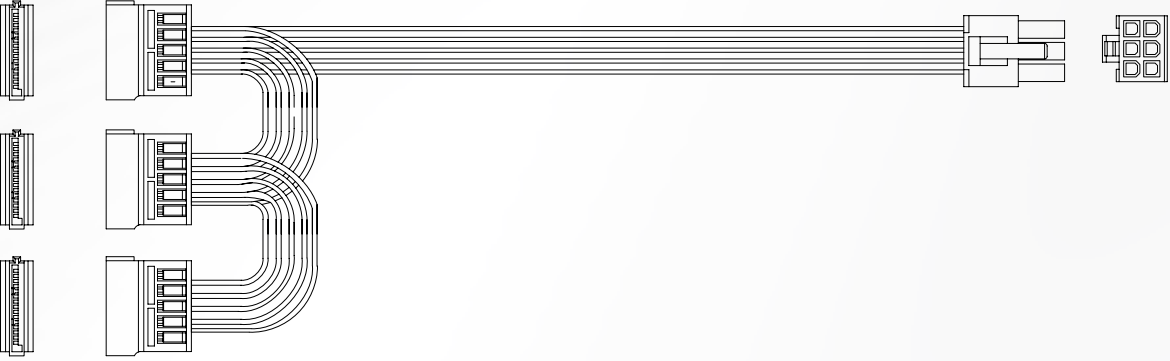
Power Cord



Cable Ties

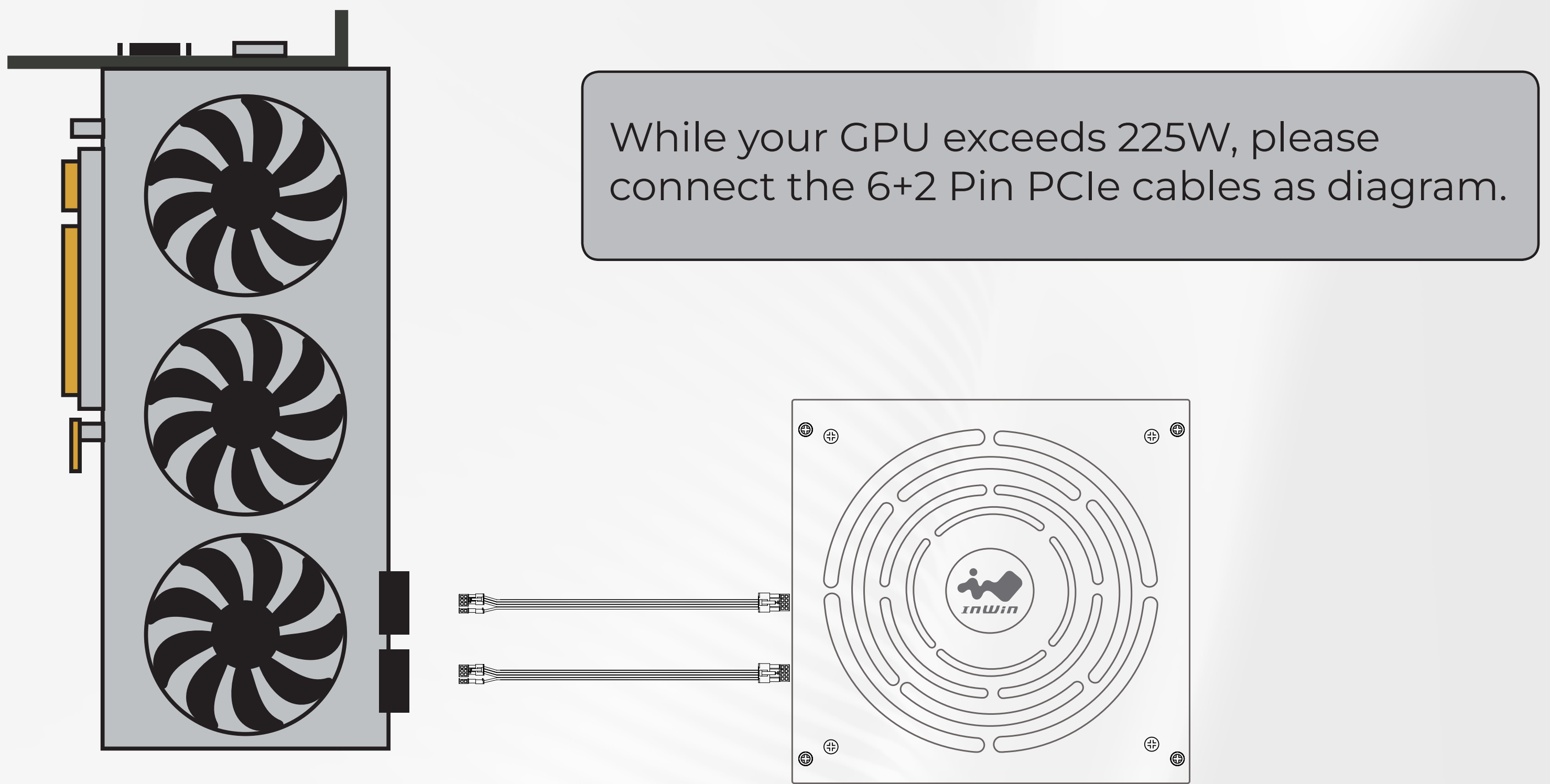


Mounting Screws

| Cable Type                                                                          | Connectors per Cable | Number of Cables | Total length (mm) |
|-------------------------------------------------------------------------------------|----------------------|------------------|-------------------|
| Motherboard 24 Pin                                                                  | 1                    | 1                | 600               |
|    |                      |                  |                   |
| CPU 8 (4+4) Pin                                                                     | 1                    | 3                | 700               |
|  |                      |                  |                   |
| PCIe 8 (6+2) Pin                                                                    | 1                    | 4                | 700               |
|  |                      |                  |                   |
| PCIe 12V-2x6                                                                        | 1                    | 4                | 700               |
|  |                      |                  |                   |
| Peripheral 4 Pin                                                                    | 3                    | 2                | 850               |
|  |                      |                  |                   |
| SATA                                                                                | 3                    | 2                | 850               |
|  |                      |                  |                   |

1. Make sure the power supply's AC power cable is not connected before installation.
2. Place the power supply unit into the space provided in the case and secure the power supply unit with the screws.
3. Connect 24 Pin power to the 24 Pin socket on the motherboard.
4. Connect the 8 (4+4) Pin CPU cable to the motherboard.
  - A. If your motherboard has an 8 (4+4) Pin CPU socket, connect the 8 (4+4) Pin CPU cable directly to your motherboard.
  - B. If your motherboard has a 4 Pin CPU socket, connect the 4 Pin CPU cable directly to your motherboard.
5. Connect the PCI-E cable to the graphics card.
  - A. Each 6+2 Pin PCI-E cable can provide up to 150W, and the MB PCI-E connector will supply an additional 75W to the graphics card.

Please use an additional 6+2 Pin PCIe cable if your GPU exceeds 225W (150+75).



B. If your graphics card supports PCIe 12V-2x6 cable, please connect the PCIe 12V-2x6 cable direct to the socket.

6. Connect the peripheral cables, and the SATA cables to the appropriate socket.
7. Make sure all the cables are tightly connected and save any unused modular cables for future usage.
8. Connect the AC power cord to the power supply and turn it on by switching the power button to the "I" position.

These troubleshooting points will help you diagnose and solve problems with your power supply if the unit fails to operate properly:

1. Please make sure the power supply and power cord are connected properly.
2. Please make sure the power cord is plugged into the power socket.
3. Please make sure the power supply I/O button is switched to the “I” position.
4. Please check if all the connectors (motherboard and peripheral) are connected properly.
5. Please allow a 5-second interval before turning the power on again when power supply is switched off manually.
6. If you are still experiencing difficulties, please contact your local distributor for RMA support.

## ■ Notices

1. Please use the anti-static precautions while installing the components to prevent damage and injury.
2. Install in accordance with the user manual's instructions and safety warnings.
3. High voltages are present in the power supply. Do not open the power supply case. Any modifications may damage the product and may place the user at risk.
4. Do not use the power supply if it has been wet or damaged to avoid electric shock or injury.
5. Do not install the power supply near any heat sources such as: radiators, heat registers, or other apparatus that produces heat.
6. Do not insert any objects into the open ventilation or fan grill area.
7. Please use only this product's exclusively supplied cables. Other cables may not be compatible and could cause serious damage to your system and power supply.
8. Do not modify the cables and/or connectors included with the power supply.

## ■ Warranty

1. InWin provides a 10-year warranty toward the product. The warranty covers malfunctions or flaws before customer use. The warranty starts from your initial purchase (according to the date on your receipt). Please note that we do not honor the warranty for the product if it is not purchased personally or if it is purchased through an unauthorized distribution channel.
2. This limited warranty shall not apply if the defect was caused through any of the following:  
(1) Abuse and misuse, (2) Operation outside of product specification, (3) Unauthorized service or modification, (4) Any and all alteration of the product.
3. For more detailed warranty information, please visit the InWin retail website at <https://www.in-win.com/en/warranty>
4. The actual product is subject to change without prior notice. In Win Development Inc. reserves the right to make final modifications.



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***Innovation from  
Inception to Integration***