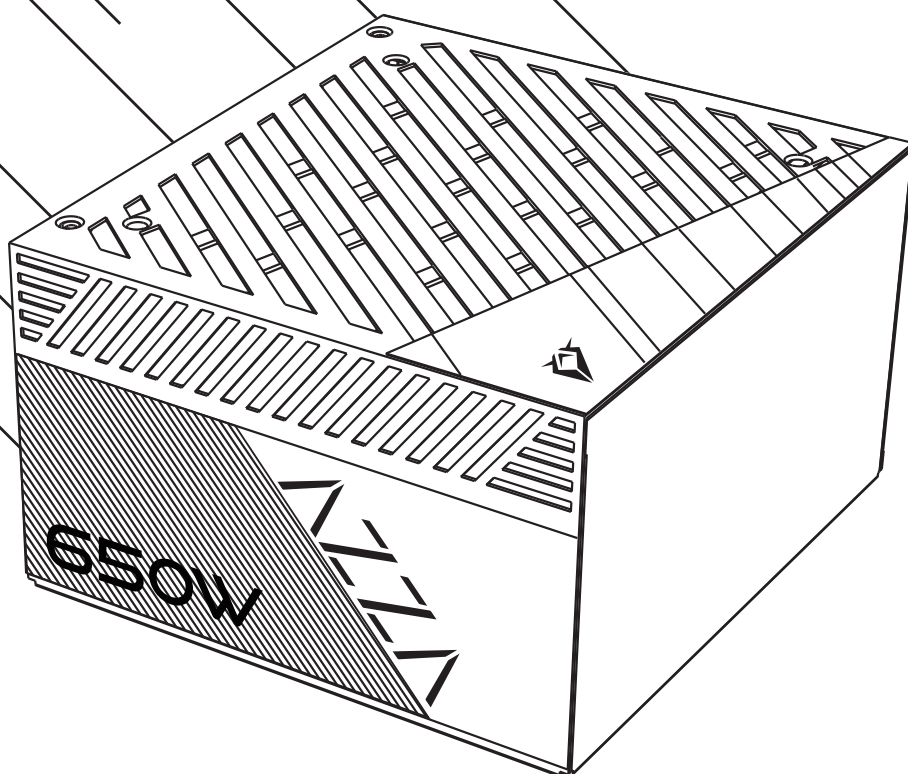




**ATX 3.1**

**PCI-e 5.1**  
Ready



PSAZ-650W/PSAZ-650B  
POWER SUPPLY

**650W**

**USER MANUAL**



# Features

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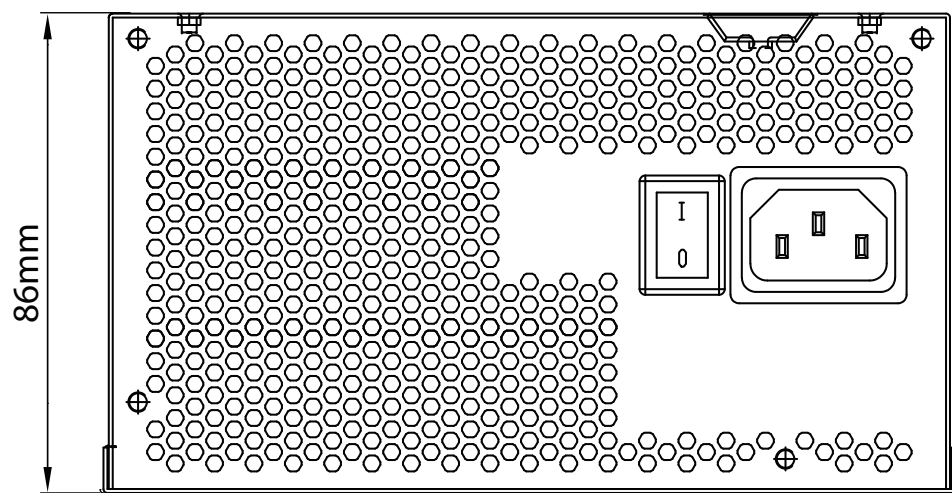
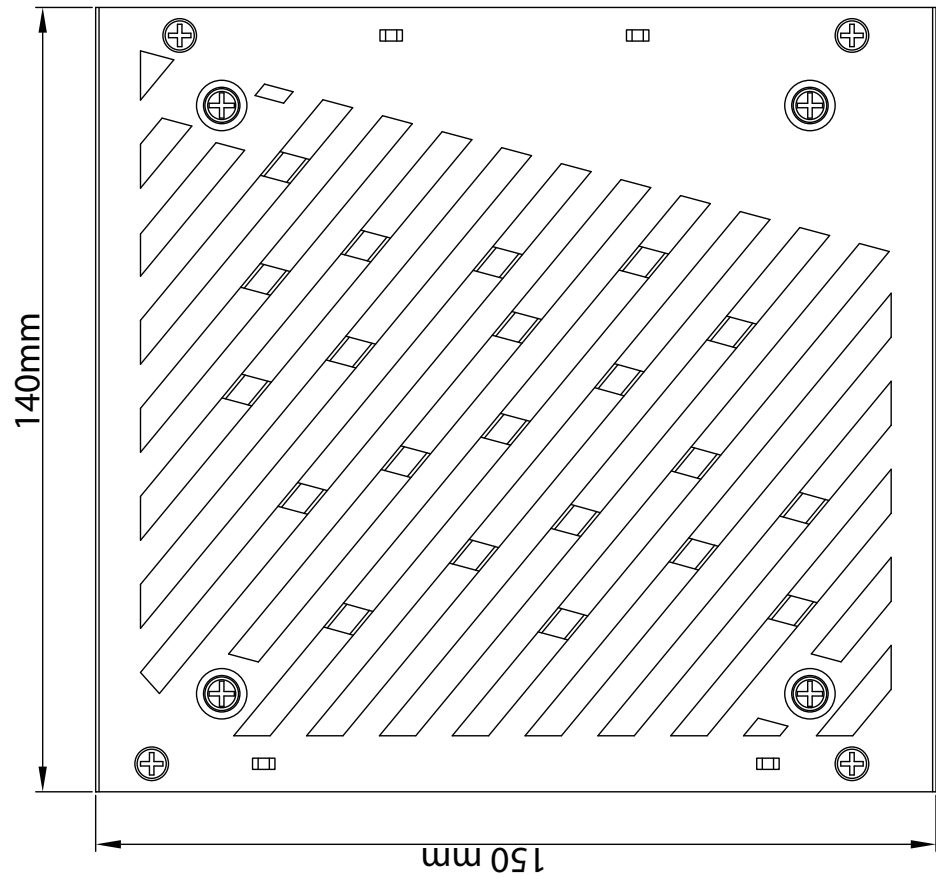
- Complies with ATX12V V3.1
- Efficiency  $\geq 86\%$  typical load
- 120mm Smart Sleeve Bearing
- Support PCIe Gen 5.1 graphics card
- High-quality 12V-2x6 16-pin cable supports 450W output
- Complete protection: OCP/OVP/OPP/SCP/OTP/UVP
- 80 PLUS® Bronze certified

# Specifications

|                   |                       |      |       |      |       |
|-------------------|-----------------------|------|-------|------|-------|
| PSAZ-650W         | 650W Bronze           |      |       |      |       |
| AC Input          | 100-240V~8-4A,50-60Hz |      |       |      |       |
| DC Ouput Voltage  | +12V                  | +5V  | +3.3V | -12V | +5Vsb |
| Max Ouput Current | 54A                   | 15A  | 15A   | 0.3A | 3.0A  |
| Combined Power    | 648W                  | 100W |       | 3.6W | 15W   |
| Total Power       | 650W                  |      |       |      |       |

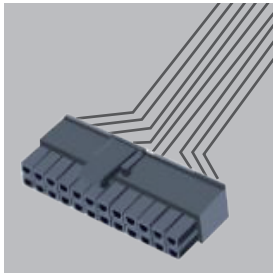
|                   |                     |      |       |      |       |
|-------------------|---------------------|------|-------|------|-------|
| PSAZ-650B         | 650W Bronze         |      |       |      |       |
| AC Input          | 200-240V~4A 50-60Hz |      |       |      |       |
| DC Ouput Voltage  | +12V                | +5V  | +3.3V | -12V | +5Vsb |
| Max Ouput Current | 54A                 | 15A  | 15A   | 0.3A | 3.0A  |
| Combined Power    | 648W                | 100W |       | 3.6W | 15W   |
| Total Power       | 650W                |      |       |      |       |

# Dimensions

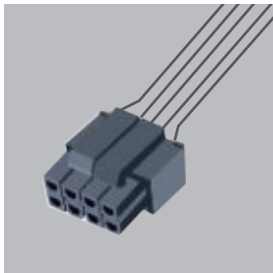


# Connectors

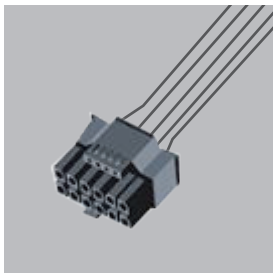
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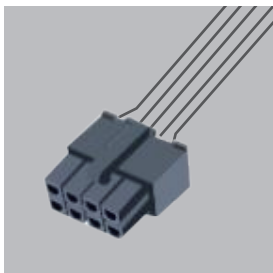
ATX 24 x1



4+4Pin x1



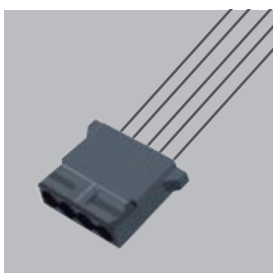
PCIe 12+4 x1



PCIe 6+2 x2



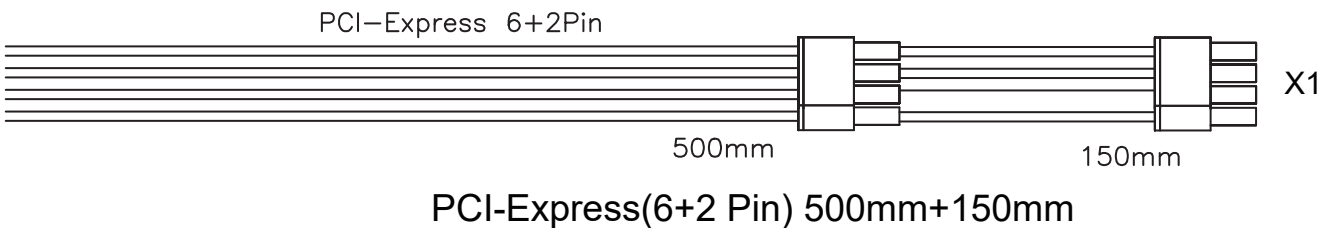
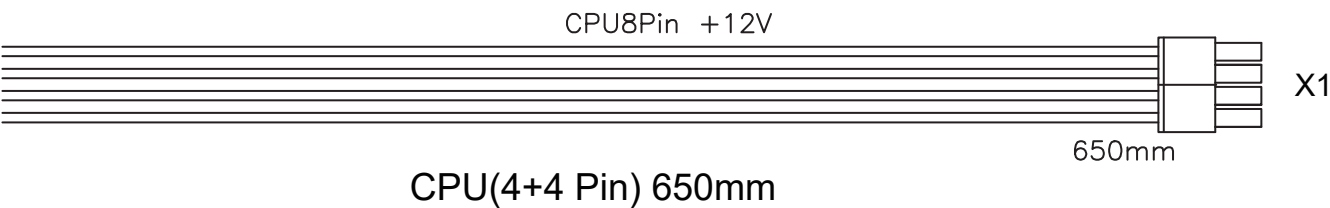
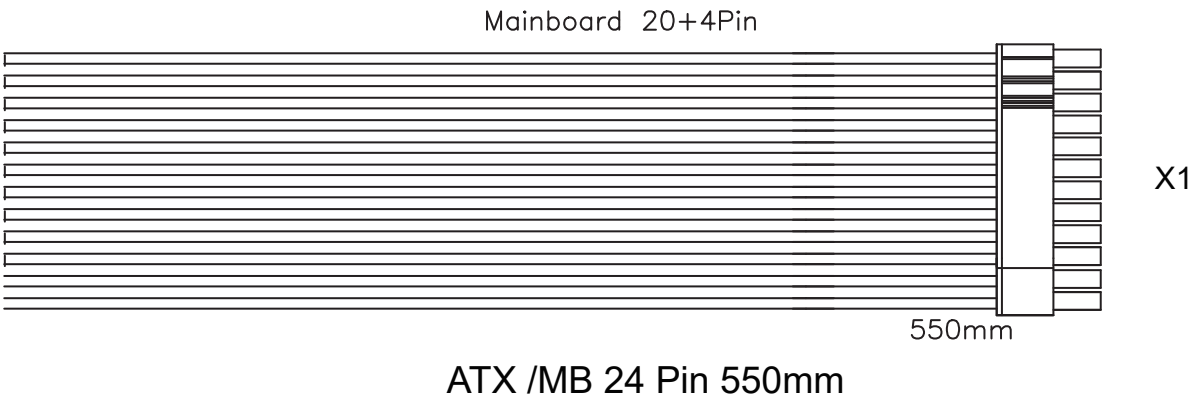
Sata x6



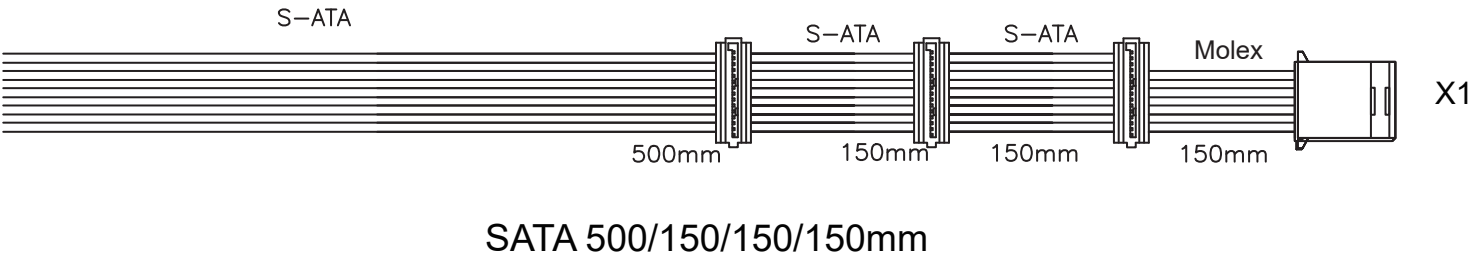
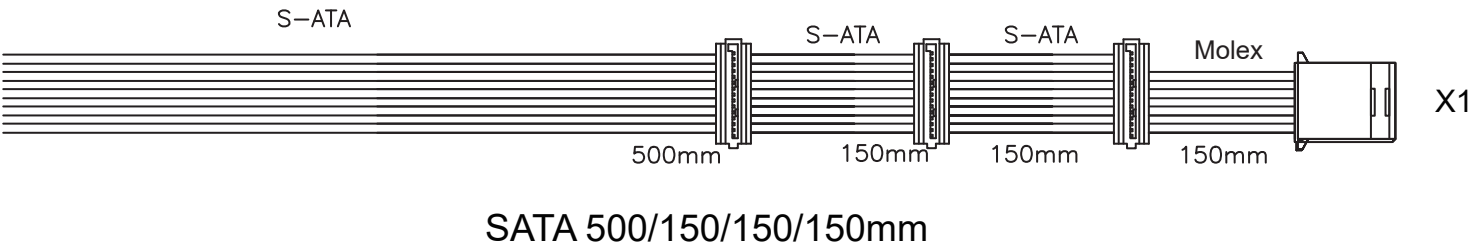
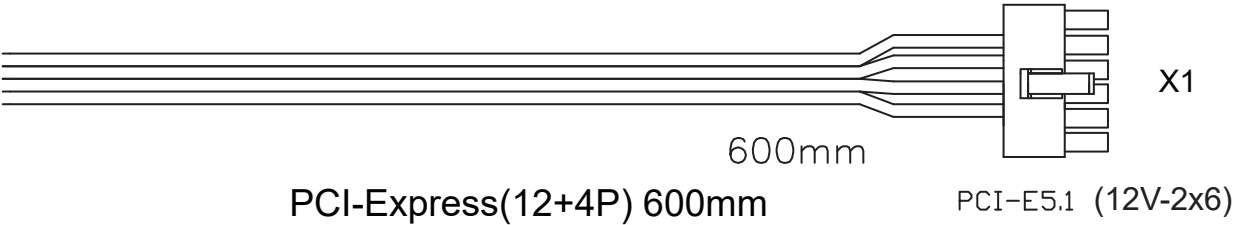
Molex(PERIPHERAL) x2

# Connectivity and Cable Lengths

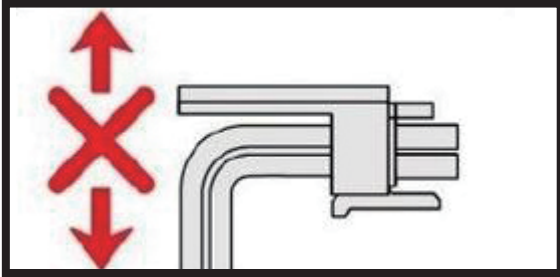
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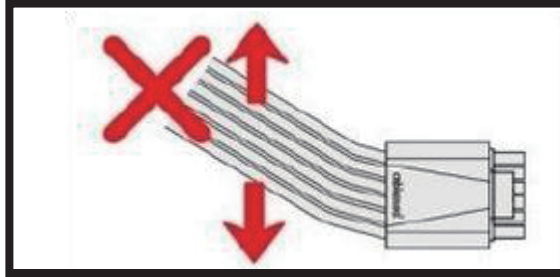
# Connectivity and Cable Lengths



# 12V-2x6 Cable Guide

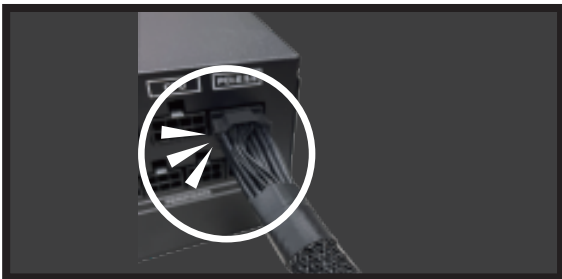


Do not bend vertically

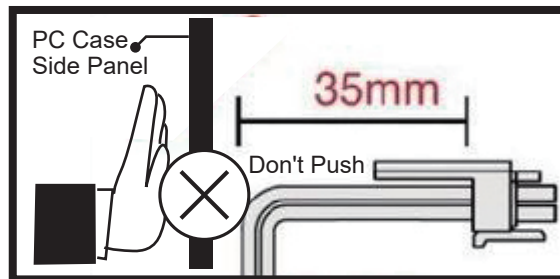


Do not bend horizontally

The 12V-2x6 connector and the terminals used in it are much smaller than the previous generation. Through our extensive testing, it appears that bending the wires too close to the connector could result in some of the terminals coming loose or misaligning within the connector itself. This may lead to an uneven load across the other wires, increasing the risk of overheating damage. The risk of this is substantially higher if the bend is done horizontally in relation to the connector orientation (left to right).



Leave enough 12V-2x6 cable length (around 35mm), then do cable management. The connectors should click to lock in.



Bend starting at 35mm from connector

RTX 40/50 Series is bigger than the rest of the models therefore make sure that the width of the case is wide enough for the PSU and RTX40/50 Series GPU.

Once complete install the system, please DO NOT PUSH THE SIDE PANEL otherwise the cable will be squeezed and there will be the risk of OVERHEATING & BURNING.