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## STANDARD ATX PS2 POWER SUPPLY UNIT (PSU) INSTALLATION

There are a few types of ATX PSU available on the market. They all have the same front size (85x150mm), the same screw mountings, similar numbers of standard connectors and are interchangeable most of the time.

However depending on your computer you may specifically require:

-A fan at the front (near the power socket) or at top of the PSU.

-An On/Off switch. (this is not usually required since the PSU is switched On and Off by the PC).

-A volt switch. (required if the PSU is used in a different country with other voltage requirement. Some PSU are auto range and switch automatically to the correct voltage).

-A monitor outlet. (a standard PC power cord can be used instead to power the monitor or other devices).

-Additional connectors (we can supply adaptors such as SATA, 8pin 12V, 6pin PCI-E etc...)



Long PSU with higher specifications.  
85x150x200+mm with fan at front.



PS3 Type. Short PSU for computer with limited depth. 85x150x100mm, with an 8cm fan at front, On/Off switch, Volt switch.



Standard ATX PS2 type.  
85x150x140mm with a 12cm fan on top, On/Off switch.



**Standard ATX PS2 type.**  
85x150x140mm with 2 fans (front & top), On/Off switch.



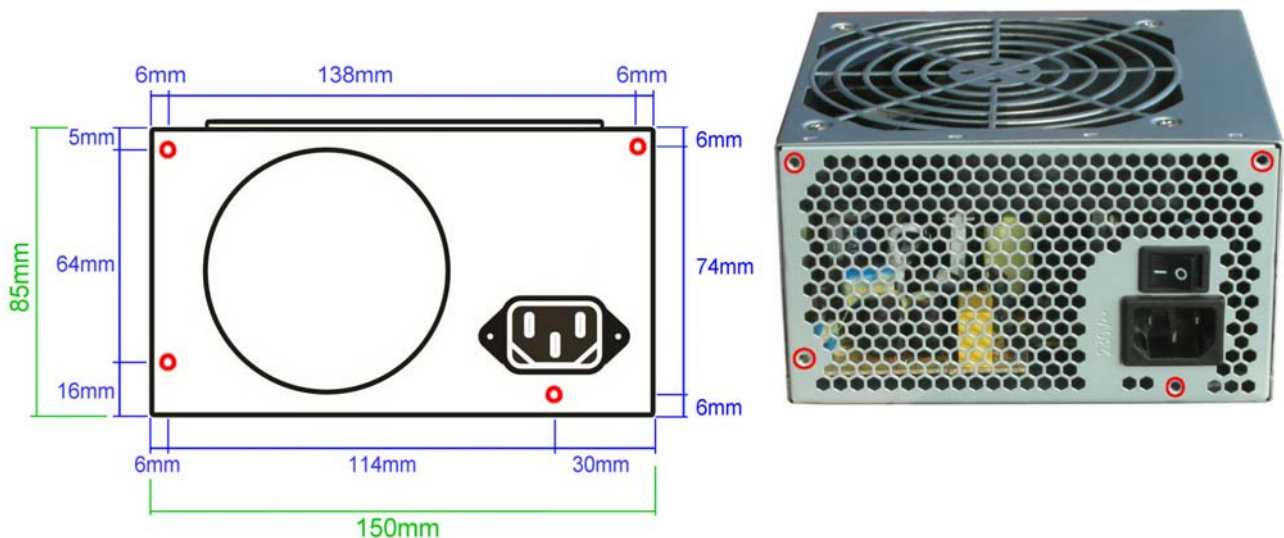
**Standard ATX PS2 type.**  
85x150x140mm with an 8cm fan at front, On/Off switch, Volt switch, Monitor Outlet.

### ATX PSU AIR FLOW



- ▲ Whatever the position of the fan(s) on the PSU, the airflow remains the same: the hot air is sucked out from the inside of the chassis and expelled from the PSU. A large 12cm fan tends to be more efficient and quieter than an 8cm fan.

### ATX PSU SCREW HOLES



- ▲ Due to the position of the screw holes, a fan situated on top of a PSU always faces the motherboard.

## VERTICAL PC CHASSIS



The 12cm fan faces the motherboard and sucks the hot air out.

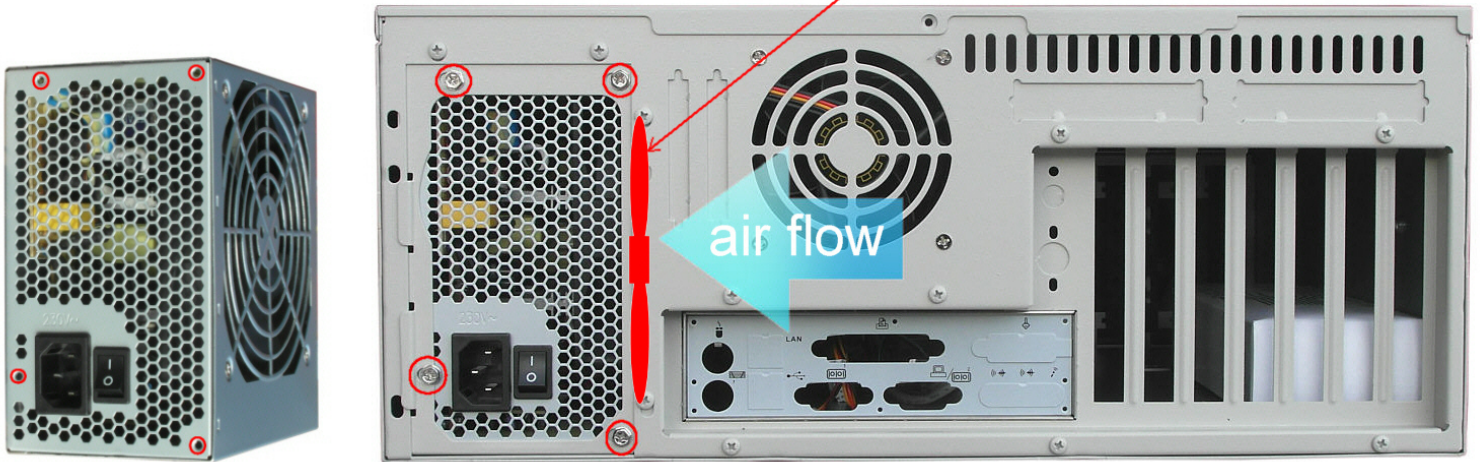


▲ Typical tower chassis.

The PSU situated on top of the chassis has its fan facing down toward the motherboard.

## HORIZONTAL PC CHASSIS

The 12cm fan faces the motherboard and sucks the hot air out.



▲ Typical 19inch 4U rackmount chassis.

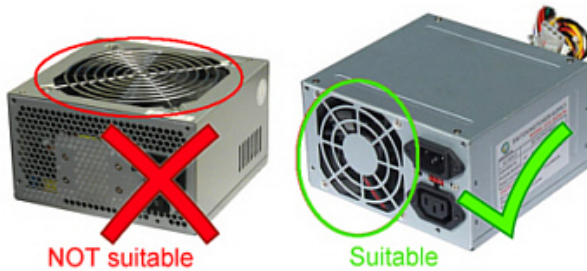
The PSU situated on left of the chassis has its fan facing toward the motherboard on the right.

## SLIM PC CHASSIS

2U 19inch rackmount ►

This is an example where a PSU with a fan on top is not suitable due to the lack of room for ventilation under the lid.

In this case, a PSU with a fan next to the power socket is required.

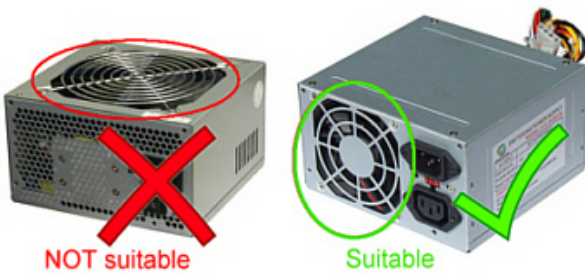


Please check your requirements or contact us for advice.

## OTHER RARE TYPES OF PC CHASSIS



▲ These DELL computers require the PSU to have the power inlet at a specific location and nothing else (no switch, no monitor outlet) due to the shape of the PSU cutout on the chassis.

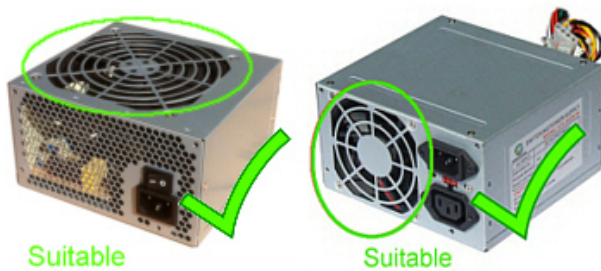


▲ This chassis cannot take a PSU with a 12cm fan on top. This is because the right side panel will obstruct the air flow.



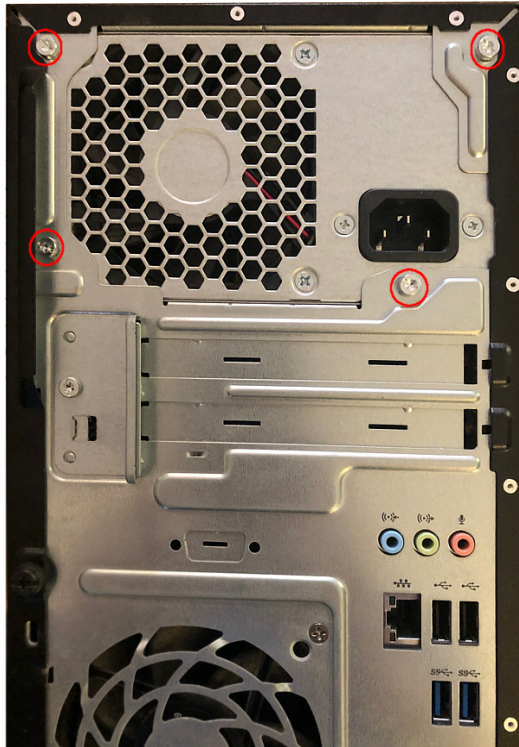
▲ This unusual chassis takes a PSU at the bottom. However, the extra screw holes allow any ATX PSU to be mounted in either direction.

This chassis has a convenient PSU mounting bracket which can be turned up side down, allowing any type of ATX PSU to be mounted with the fan facing either up or down. ►





◀ This chassis (HP Pavilion 570 P050NA) cannot take a PSU with a 12cm fan on top. This is because the lid will obstruct the air flow. In most other chassis the PSU screw holes allow the fan to face downward.



▲ In order to solve this fan orientation issue, it is also possible to use a smaller SFX PSU with a PS2 adapter bracket. By turning the bracket Up side Down, the fan can be orientated as desired.