



# HYDRO PTM Series

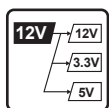
550W / 650W / 750W



## Introduction

FSP new PSU-Hydro PTM series has 80 PLUS® Platinum certification, and features DC-DC module design and full modular. It offers good overall performance and thanks to its FDB fan and Japanese electrolytic capacitors its reliability should be excellent as well. It is the ultimate design for gaming enthusiast and overclocker ever!

## Features



### DC – DC Module Design

Provide supreme efficiency and voltage stability



### 100% Japan-made E-cap

Reliable power and prolonged life span



### Ribbon Cable

Give any systems a neat and polished look



### Full Modular

Easy Installation, neat build

- Unique product ID with changeable side stickers for DIY enthusiasts and gamers
- Intelligent fan speed control circuit design
- Advanced thermal layout design
- Complies with newest ATX12 v2.4 & EPS12 v2.92 standards
- High efficiency  $\geq 92\%$
- Active PFC  $\geq 99\%$
- High Wattages with 80PLUS® Platinum Certification
- Powerful +12V single rail design
- Advanced full modular design with ribbon cables
- Full Japan-made electrolytic capacitors
- Support 6+2 pin PCI-Express Connectors
- Quiet and Long-Lasting 135mm FDB Fan
- Complete Protections: OCP, OVP, SCP, OPP, UVP, OTP
- Global Safety Approved



# HYDRO PTM Series

550W / 650W / 750W

## Product Overview



### Ribbon Cable Design

Neat build and easy installation, enhance cooling performance.

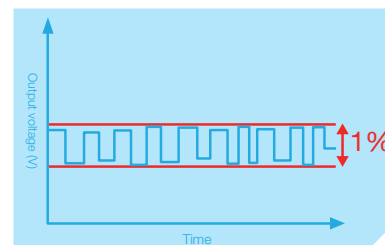
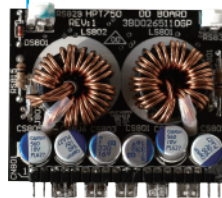


### 100% Japan-made E-cap

Reliable power and prolonged life span.

### Unique dissymmetry ID and vent-hole design

To minimize fan speed and acoustic from turbulence.

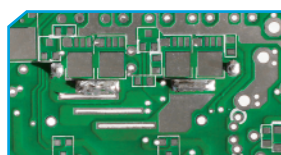


### Extremely Tight Voltage Regulation

Custom VR(Variable Resistor) design to control the balanced point of +12V rail to make sure the output voltage regulation is under +/- 1% under any load change.

### DC – DC Module Design

Both of +3.3V and +5V DC-DC module combined +12V SR circuit offers supreme efficiency, voltage stability, and high system compatibility especially in cross regulation (unbalance load) mode.



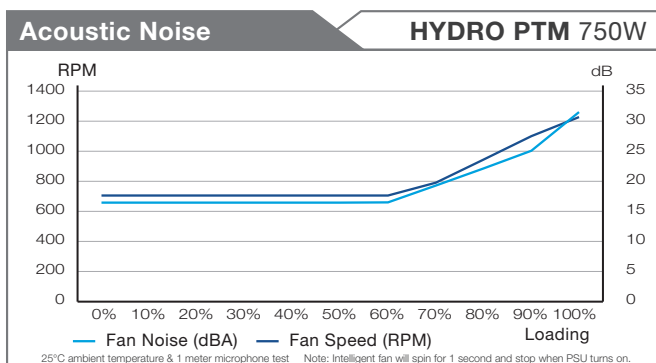
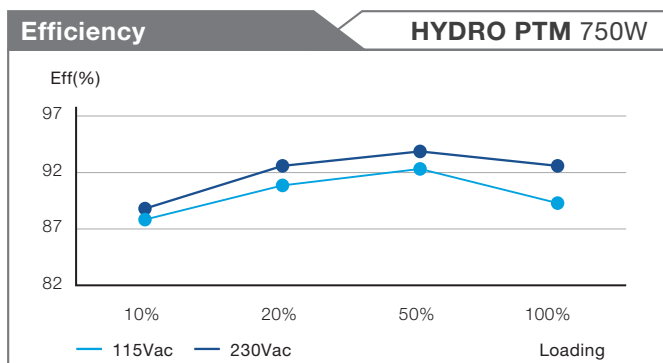
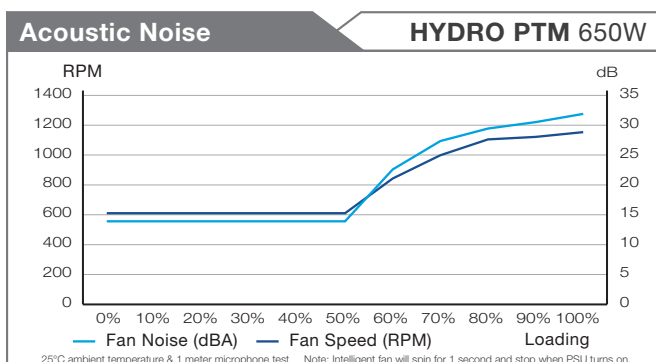
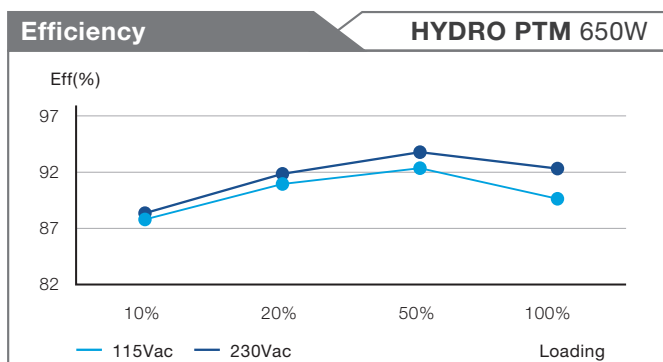
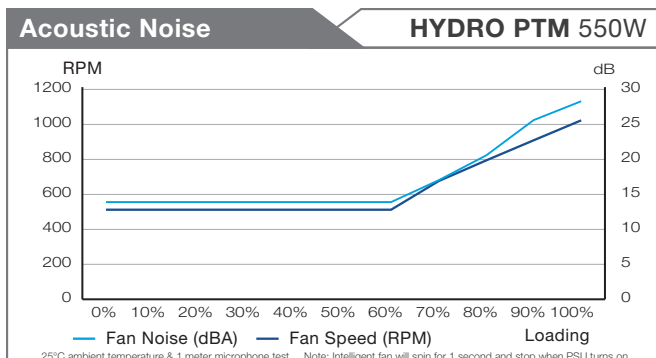
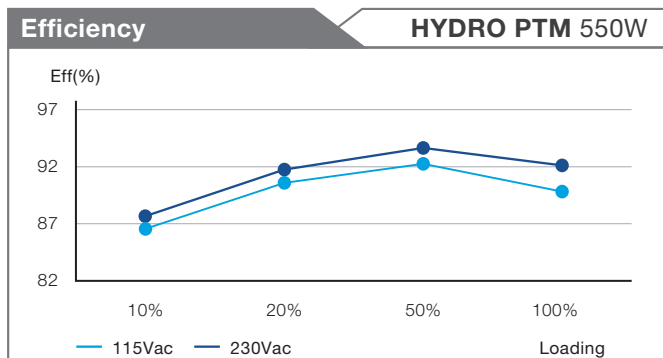
### Special heat sink design for 12V switching circuit

A new heat dissipation design that conducts heat through a thermal pad on the bottom of the power supply, transforming the whole PSU chassis into a heat-sink and cooled by system airflow.



**Changeable stylish side stickers**  
For DIY enthusiasts and gamers.

## Performance



## Rating

### 550W

|                    |                          |     |        |      |       |
|--------------------|--------------------------|-----|--------|------|-------|
| AC Input           | 100-240Vac~ 8-4A 60-50Hz |     |        |      |       |
| DC Output          | +3.3V                    | +5V | +12V   | -12V | +5Vsb |
| Max Output Current | 20A                      | 20A | 45.84A | 0.3A | 2.5A  |
| Max Combined Power | 120W                     |     | 550W   | 3.6W | 12.5W |
| Total Power        | 550W                     |     |        |      |       |

### 650W

|                    |                           |     |        |      |       |
|--------------------|---------------------------|-----|--------|------|-------|
| AC Input           | 100-240Vac~ 10-5A 50-60Hz |     |        |      |       |
| DC Output          | +3.3V                     | +5V | +12V   | -12V | +5Vsb |
| Max Output Current | 20A                       | 20A | 54.17A | 0.3A | 2.5A  |
| Max Combined Power | 120W                      |     | 650W   | 3.6W | 12.5W |
| Total Power        | 650W                      |     |        |      |       |

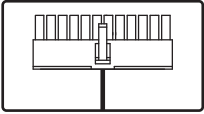
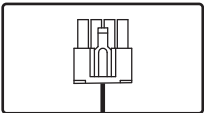
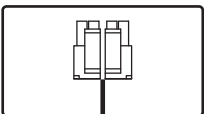
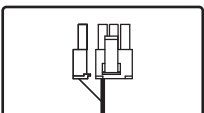
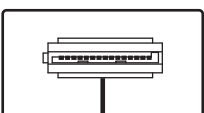
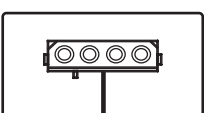
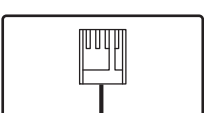
### 750W

|                    |                           |     |       |      |       |
|--------------------|---------------------------|-----|-------|------|-------|
| AC Input           | 100-240Vac~ 10-5A 50-60Hz |     |       |      |       |
| DC Output          | +3.3V                     | +5V | +12V  | -12V | +5Vsb |
| Max Output Current | 20A                       | 20A | 62.5A | 0.3A | 2.5A  |
| Max Combined Power | 120W                      |     | 750W  | 3.6W | 12.5W |
| Total Power        | 750W                      |     |       |      |       |

## Specifications

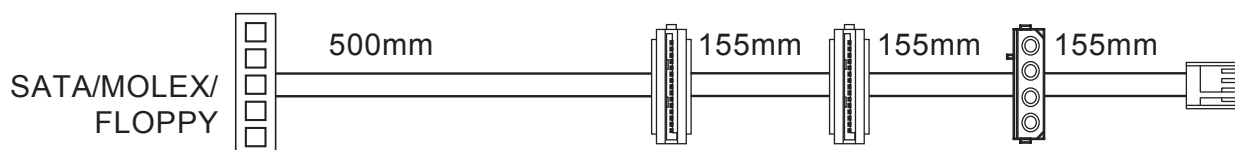
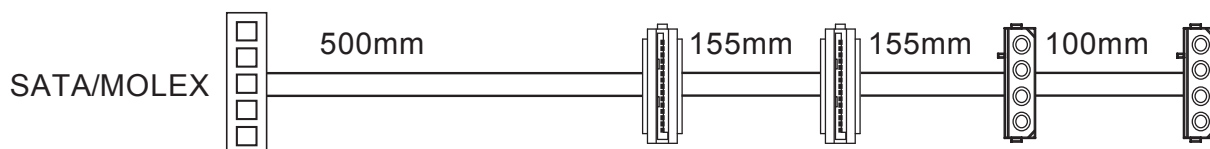
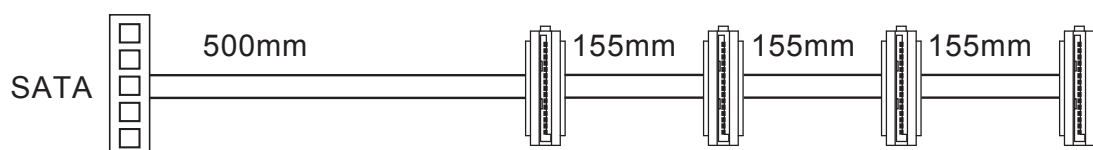
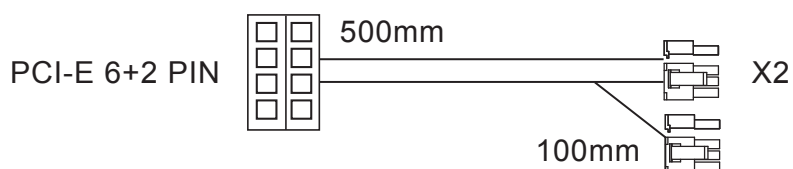
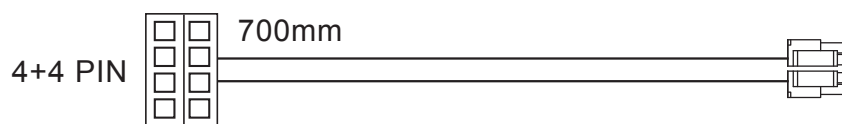
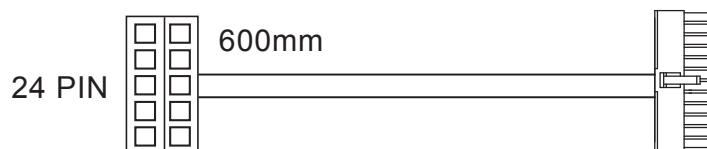
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|-------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                   |  |  |  |
| Model             | HPT550M                                                                           | HPT650M                                                                            | HPT750M                                                                             |
| Type              | ATX                                                                               | ATX                                                                                | ATX                                                                                 |
| PFC               | Active PFC                                                                        | Active PFC                                                                         | Active PFC                                                                          |
| Input Voltage     | 100-240Vac                                                                        | 100-240Vac                                                                         | 100-240Vac                                                                          |
| Input Current     | 8-4A                                                                              | 10-5A                                                                              | 10-5A                                                                               |
| Input Frequency   | 60/50Hz                                                                           | 60/50Hz                                                                            | 60/50Hz                                                                             |
| Output Capacity   | 550W                                                                              | 650W                                                                               | 750W                                                                                |
| Max. Output Power | 550W                                                                              | 650W                                                                               | 750W                                                                                |
| Fan Type          | FDB Fan, 135mm                                                                    | FDB Fan, 135mm                                                                     | FDB Fan, 135mm                                                                      |
| Efficiency        | >92%                                                                              | >92%                                                                               | >92%                                                                                |
| MTBF              | 100,000 Hrs                                                                       | 100,000 Hrs                                                                        | 100,000 Hrs                                                                         |
| Protection        | OCP, OVP, SCP,<br>OPP, UVP, OTP                                                   | OCP, OVP, SCP,<br>OPP, UVP, OTP                                                    | OCP, OVP, SCP,<br>OPP, UVP, OTP                                                     |
| Weight            | 1.68kg                                                                            | 1.68kg                                                                             | 1.68kg                                                                              |
| Dimension(L×W×H)  | 150 x 170 x 86 mm                                                                 | 150 x 170 x 86 mm                                                                  | 150 x 170 x 86 mm                                                                   |

## Connectors

|                                                                                               | 550W | 650W | 750W |
|-----------------------------------------------------------------------------------------------|------|------|------|
| <br>24 PIN   | 1    | 1    | 1    |
| <br>8 PIN    | 0    | 1    | 0    |
| <br>4+4 PIN  | 1    | 1    | 2    |
| <br>6+2 PIN | 4    | 4    | 6    |
| <br>SATA   | 8    | 12   | 14   |
| <br>MOLEX  | 3    | 3    | 5    |
| <br>FLOPPY | 1    | 1    | 1    |

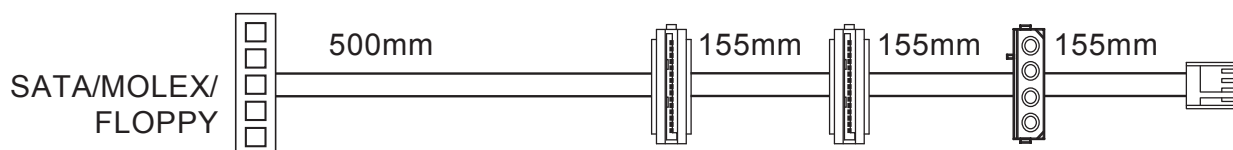
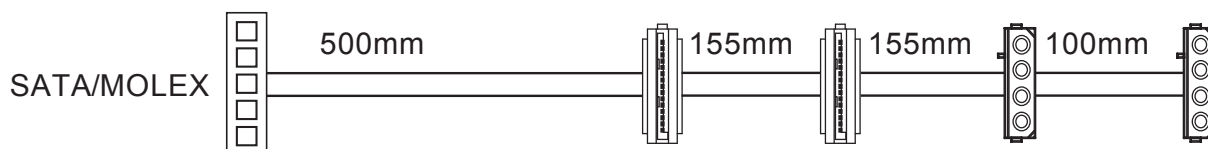
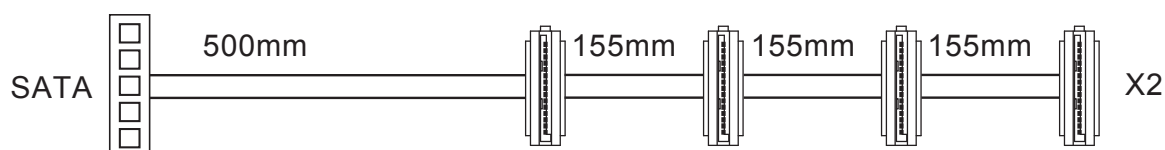
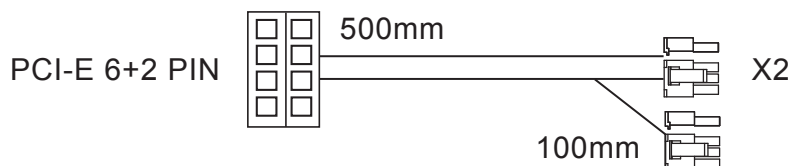
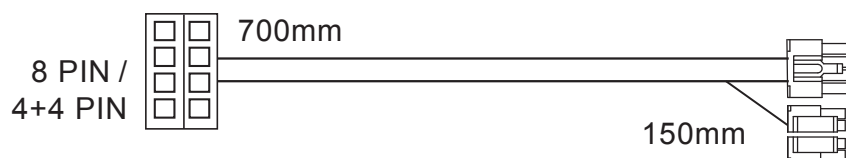
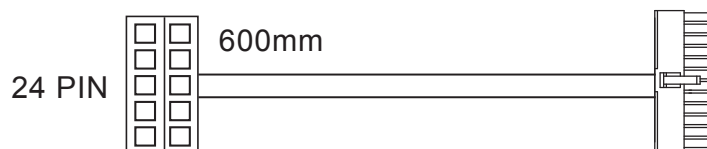
## Cable Length

### 550W



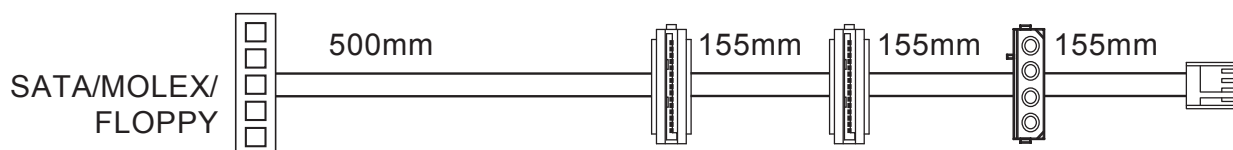
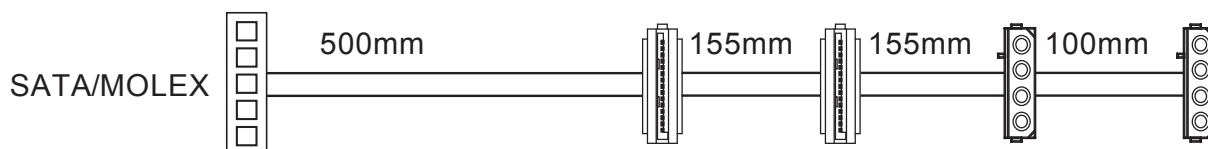
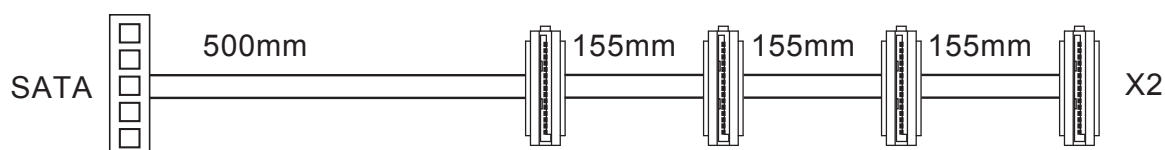
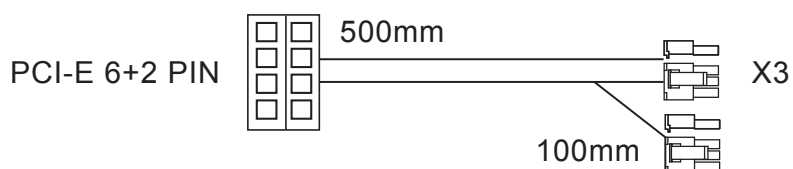
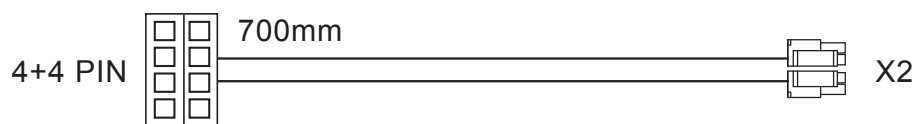
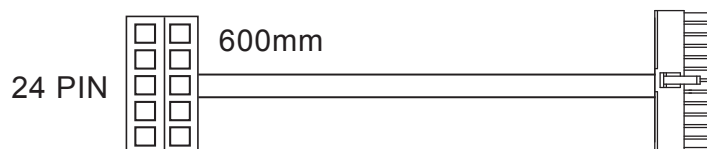
## Cable Length

### 650W



## Cable Length

### 750W





# HYDRO PTM Series

550W / 650W / 750W

## Package Information

| Model                            | HPT550M                                | HPT650M       | HPT750M       |
|----------------------------------|----------------------------------------|---------------|---------------|
| EAN Code                         | 4713224520433                          | 4713224520440 | 4713224520457 |
| UPC Code                         | 845685008978                           | 845685008985  | 845685008992  |
| Shipping Dimensions<br>(L×W×H)   | 327 × 245 × 96 mm                      |               |               |
| Shipping Weights                 | 3.052 kg                               | 3.132 kg      | 3.368 kg      |
| Master Pack Dimension<br>(L×W×H) | 540 × 275 × 351 mm                     |               |               |
| Master Pack Quantity             | 5 retail boxes per master package      |               |               |
| Master Pack Weight               | 15.26 kg                               | 15.66 kg      | 16.84 kg      |
| Pallet Quantity                  | 135 (5 retail boxes × 27 master boxes) |               |               |
| Country of Origin                | China                                  |               |               |
| Warranty                         | 10 Years                               |               |               |
| Additional Information           |                                        |               |               |