



## Introduction

Hydro PTM PRO series features the latest PCIe connector and conforms to the latest ATX12V V3.0 supporting the newest generation Intel PC platform.

The Hydro PTM PRO Series offers a range of wattage variants: 850W, 1000W, 1200W, 1350W, and 1650W. These variants cater to both enthusiast and workstation PC systems, enabling users to unlock the full potential of their hardware. Furthermore, the Eco-switch function ensures silent operation, enhancing the overall experience. And features exclusive Off-Wet technology, the conformal coating which protects the power supply and its internal components from dust, humidity, stains and harsh environments, the Hydro PTM PRO series are tested to work perfectly even in 95% relative humidity.

## Features



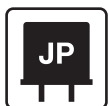
### Full Modular

Easy Installation, neat build



### Ribbon Cable

Easy Installation, neat build



### Japanese electrolytic capacitors

Reliable power and prolonged life span



### Quiet and Durable Cooling

FDB(Fluid Dynamic Bearing) fan with low noise and long-lasting life span

- Complies with ATX12V V3.0 & EPS12V V2.92
- Efficiency  $\geq 92\%$  @ typical load (1650W  $\geq 94\%$  @ typical load)
- Eco semi-fanless fan control switch
- Quiet and long-lasting 135mm FDB fan
- Ribbon cable design for enthusiasts
- +12V single-rail design
- +5V & 3.3V DC to DC module design
- Japanese electrolytic capacitors
- Changeable side stickers for DIY enthusiasts and gamers
- Complete protection: OCP/OVP/OPP/SCP/OTP/UVP

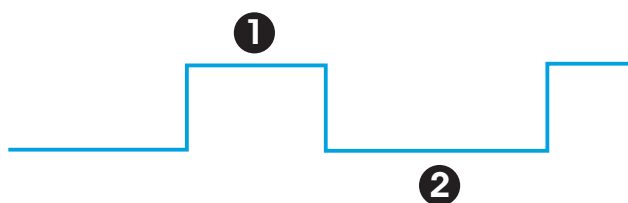
## Product Overview

### New ATX PSU Specifications

Updated ATX 3.0 specifications for the next-generation hardware power demands.

Unleash the full power:  
Deliver power excursion 200% of PSU size

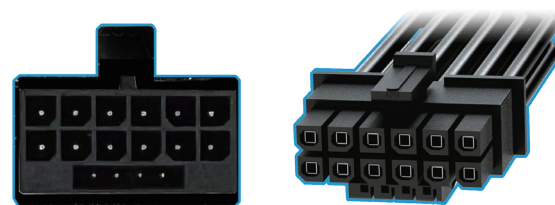
To get the best possible performance from the next-gen PCIe 5 desktop graphics cards and the processors.



- ❶ Peak Power: 2000W ;
- ❷ Time for Power Excursion: 100  $\mu$ s  
Constant Power: 917W ; Time Constant: 1,900  $\mu$ s  
\*1000W PSU for example.

### The new 12V-2x6 connector and cable

The PCIe Gen 5 (12+4) pin connector and the 12+4 pin cable.



- \* Rated current up to 9.2A per contact with all 12 power contacts
- \* Fully isolated terminals
- \* The 12V-2x6 connector that uses 16AWG wires.



### Changeable Side Sticker

DIY enthusiasts can choose either a blue, red or green logo to complement the rest of the system hardware. Out of the box, the logo is blue. Builders can apply wither a red or green sticker over the original blue logo to fit their preferences.

## Product Overview

1350W  
1650W



850W  
1000W  
1200W



### Server grade design

Copper bars joint mainboard and daughter board to increase conversion efficiency.

### 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 system airflow.

### 3.3V & 5V DC-DC module design

Not only maximize total 12V rating but also minimize the voltage regulation for all rails.

### Conformal coating from the inside out

Hydro PTM PRO is covered with conformal coatings to guarantee reliable performance in a harsh environment.

### Eco semi-fanless function



When Eco switch is on, the fan will not operate until the loading is over 30%.

### 5V Standby circuit

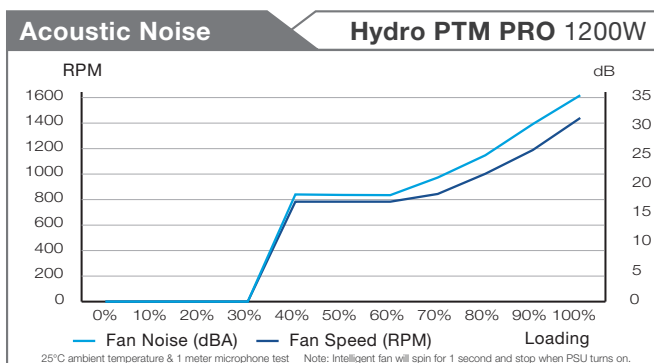
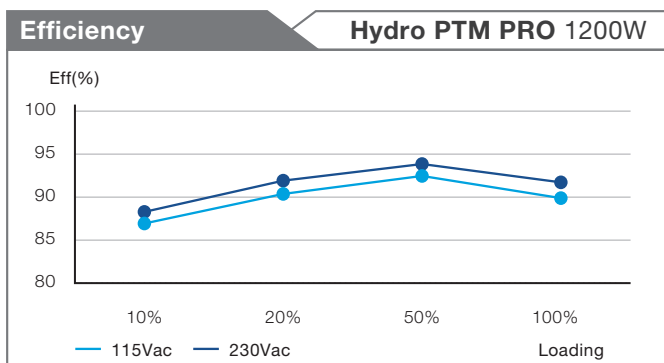
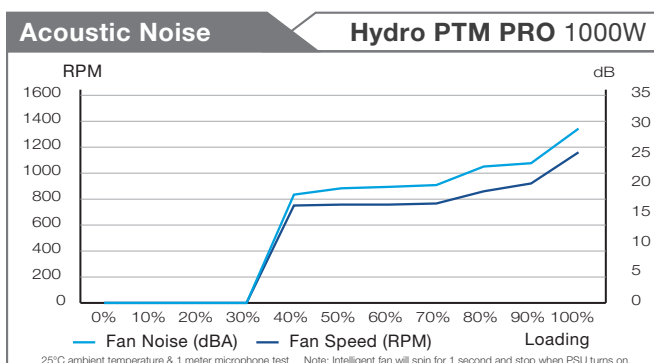
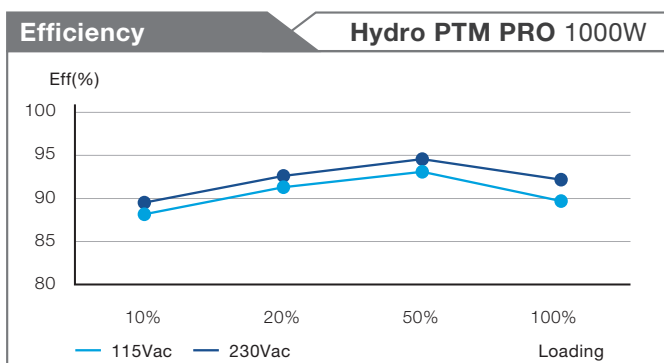
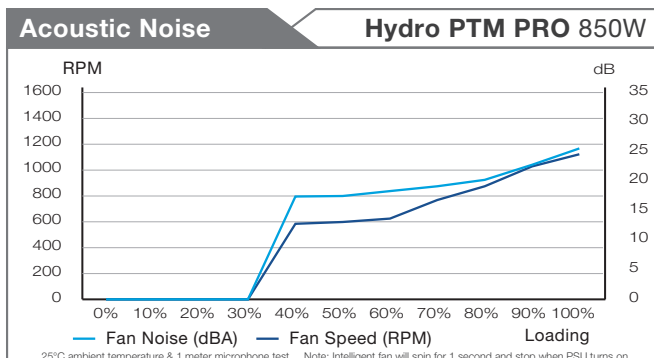
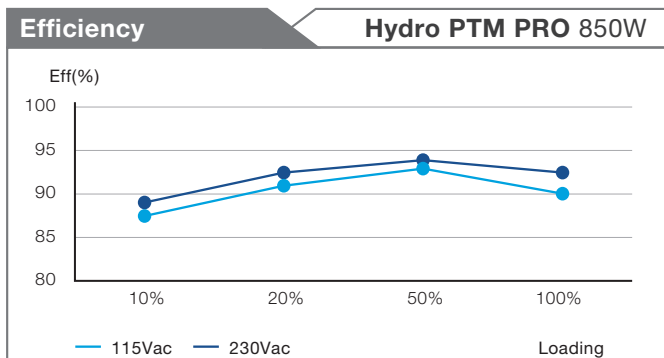
It provides stable 3A output to enable high conversion efficiency.

### Reliable quality you can trust

Selected 105°C Japanese electrolytic capacitor provides superior reliability under intense current operation environment.

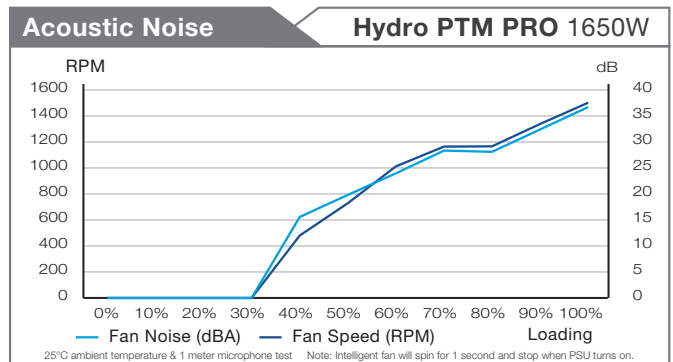
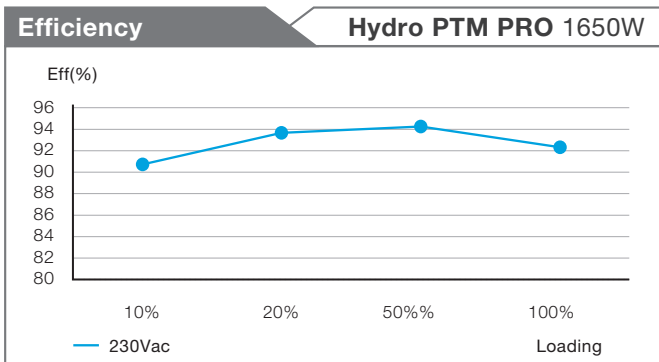
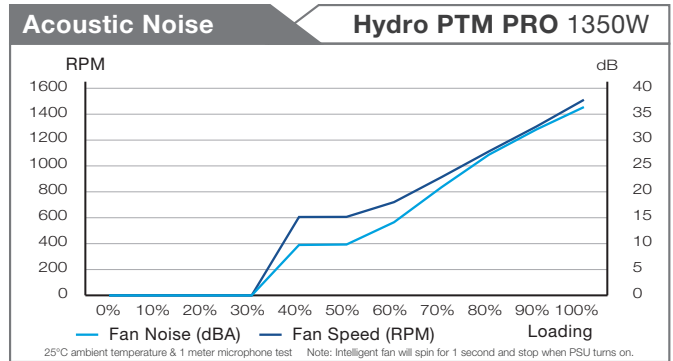
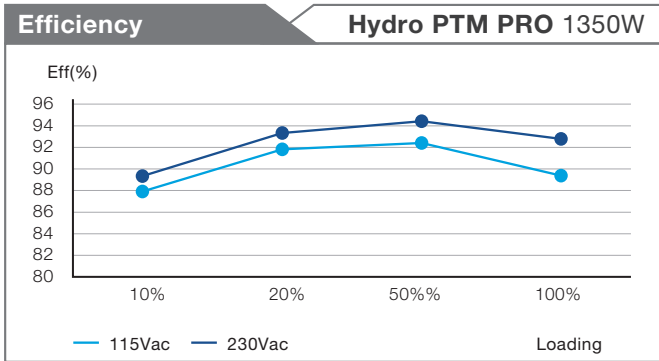
### Intelligent fan speed circuit control design with 0dBA function

## Performance





## Performance



## Rating

### 850W

<b>AC Input</b>	100-240V~ 11-5.5A 50-60Hz (Not for China)				
	200-240V~ 5.5A 50-60Hz (Only for China)				
<b>DC Output</b> ⚡	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Output Current</b>	20A	20A	70.83A	0.3A	3A
<b>Max Combined Power</b>	120W		850W	18.6W	
<b>Total Power</b>	850W				

### 1000W

<b>AC Input</b>	100-240V~ 13-6A 50-60Hz (Not for China)				
	200-240V~ 6A 50-60Hz (Only for China)				
<b>DC Output</b> ⚡	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Output Current</b>	20A	20A	83.33A	0.3A	3A
<b>Max Combined Power</b>	120W		1000W	18.6W	
<b>Total Power</b>	1000W				

### 1200W

<b>AC Input</b>	110-240V~ 14-9A 50-60Hz (Not for China)				
	200-240V~ 9A 50-60Hz (Only for China)				
	100-240V~ 15-9A 50-60Hz (Only for Japan)				
<b>DC Output</b> ⚡	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Output Current</b>	20A	20A	100A	0.3A	3A
<b>Max Combined Power</b>	120W		1200W	18.6W	
<b>Total Power</b>	1200W				

## Rating

### 1350W

<b>AC Input</b>	110-240V~ 15-8A 50-60Hz (Not for China & Korea)				
	200-240V~ 8A 50-60Hz (Only for China and Korea)				
<b>DC Output</b> ⚡	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Output Current</b>	20A	20A	112.5A	0.3A	3A
<b>Max Combined Power</b>	120W		1350W	3.6W	15W
<b>Total Power</b>	1350W				

### 1650W

<b>AC Input</b>	200-240V~ 10A 50-60Hz				
<b>DC Output</b> ⚡	+3.3V	+5V	+12V	-12V	+5Vsb
<b>Max Output Current</b>	20A	20A	137.5A	0.3A	3A
<b>Max Combined Power</b>	120W		1650W	3.6W	15W
<b>Total Power</b>	1650W				

## Specifications



Model	HPT2-850M	HPT2-1000M	HPT2-1200M
Type	ATX	ATX	ATX
PFC	Active PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V	110V-240V
Input Current	11-5.5A	13-6A	14-9A
Input Frequency	50-60Hz	50-60Hz	50-60Hz
Output Capacity	850W	1000W	1200W
Max. Output Power	850W	1000W	1200W
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, OPP, SCP, OTP, UVP	OCP, OVP, OPP, SCP, OTP, UVP	OCP, OVP, OPP, SCP, OTP, UVP
Dimension(L×W×H)	190 x 150 x 86mm	190 x 150 x 86mm	190 x 150 x 86mm
warranty	10 Years	10 Years	10 Years
Additional Information			

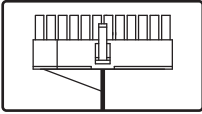
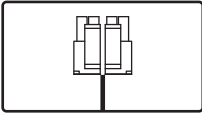
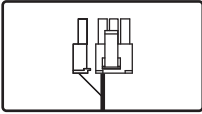
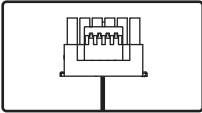
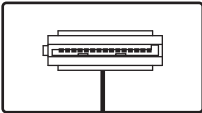
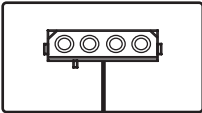
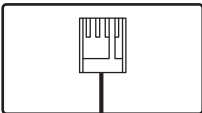


## Specifications



Model	HPT2-1350M	HPT2-1650M
Type	ATX	ATX
PFC	Active PFC	Active PFC
Input Voltage	100-240V ; 200-240V	200-240V
Input Current	15-8A ; 8A	10A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	1350W	1650W
Max. Output Power	1350W	1650W
Fan Type	FDB fan, 135mm	FDB fan, 135mm
Efficiency	92%	94%
MTBF	100,000 Hrs	100,000 Hrs
Protection	OCP, OVP, OPP, SCP, OTP, UVP	OCP, OVP, OPP, SCP, OTP, UVP
Dimension(L×W×H)	180 x 150 x 86mm	180 x 150 x 86mm
warranty	10 Years	10 Years
Additional Information		

## Connectors

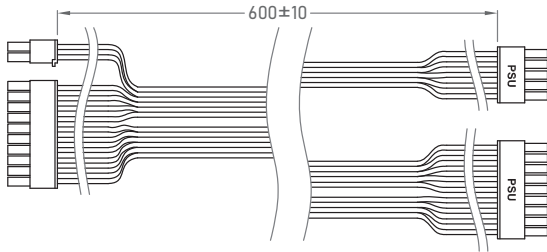
	850W	1000W	1200W	1350W	1650W
 MB 20+4 PIN	1	1	1	1	1
 CPU 4+4 PIN	3	3	3	2	2
 PCIe 6+2 PIN	6	6	6	4	4
 PCIe 12V-2x6	1	1	1	2	2
 SATA	14	14	14	12	12
 MOLEX	5	5	5	4	4
 FLOPPY	1	1	1	0	0

## Cable Length

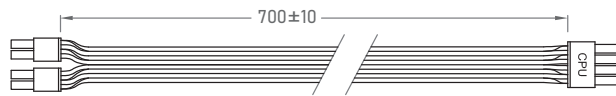
### 850W/1000W/1200W

A unit of length: mm

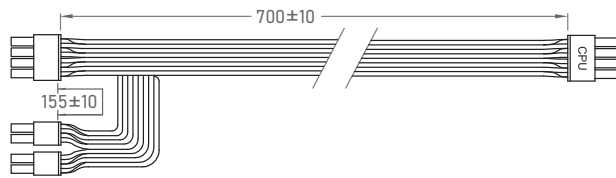
#### Motherboard



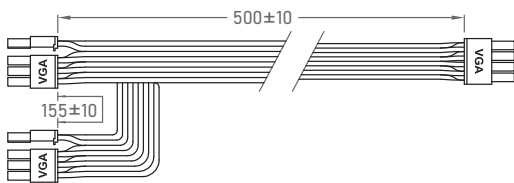
#### CPU



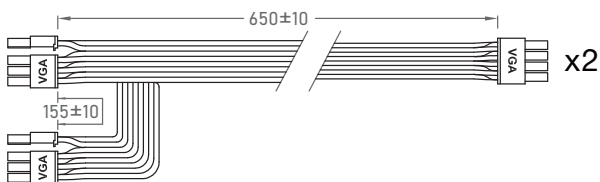
#### CPU



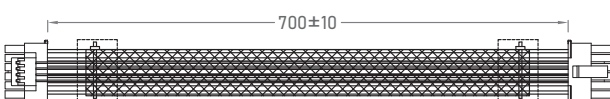
#### PCIe 6+2 Pin



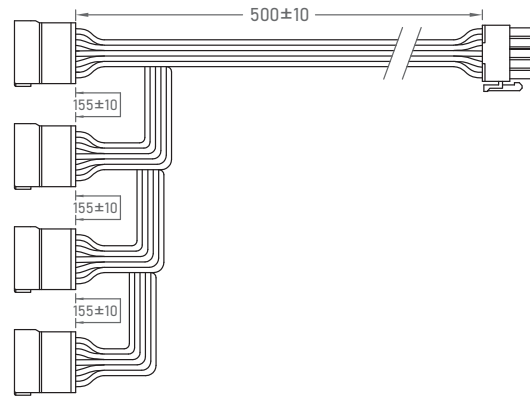
#### PCIe 6+2 Pin



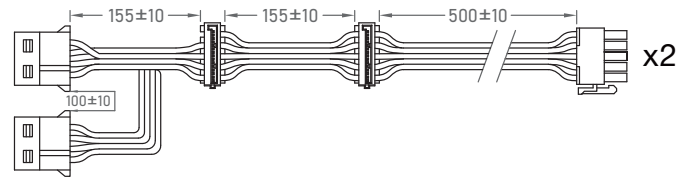
#### PCIe 12V-2x6



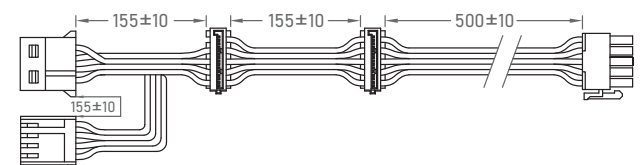
#### SATA



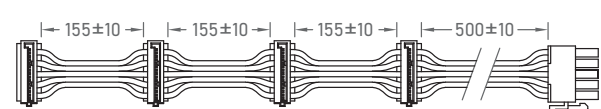
#### SATA / MOLEX



#### SATA / MOLEX / FLOPPY



#### SATA

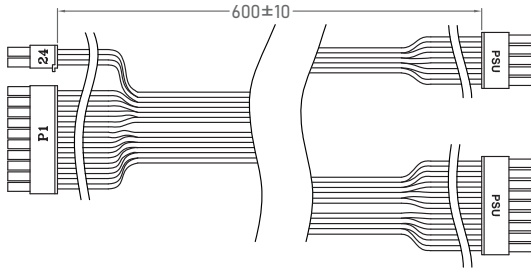


## Cable Length

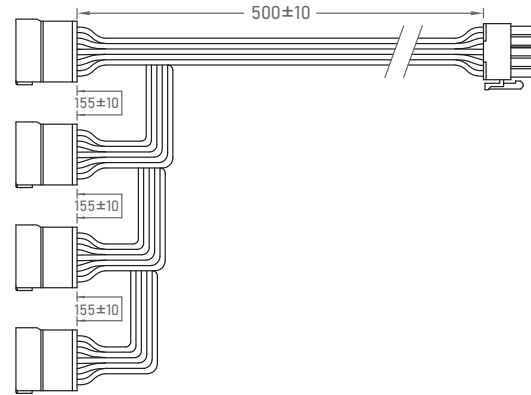
**1350W/1650W**

A unit of length: mm

### Motherboard



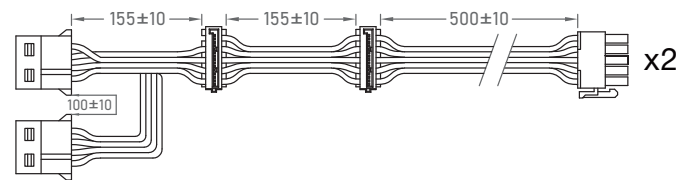
### SATA



### CPU



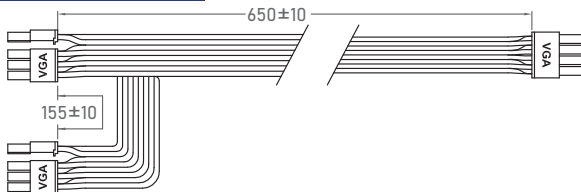
### SATA / MOLEX



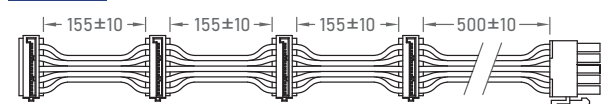
### PCIe 6+2 Pin



### PCIe 6+2 Pin



### SATA



### PCIe 12V-2x6

