



# HYDRO G PRO Series

650W / 750W / 850W / 1000W



Off-Wet

## Introduction

Compared to the previous generation, Hydro G Pro is an IEC62368 certified PSU that has been greatly improved in its safety design as well as a more compact dimension without compromising its efficiency. Like all FSP's power supplies, Hydro G Pro delivers stable performance. The 80 Plus® Gold mark serves as an assurance to offer users a worry-free gaming experience. This PSU also features changeable side stickers that allow DIY enthusiasts to customize their perfect PC build.

## Features



### Full Modular

Easy Installation, neat build



### Ribbon Cable

Easy Installation, neat build



### 100% Japan-made E-cap

Reliable power and prolonged life span



### Quiet and Durable Cooling

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

- Compliance with newest ATX12V V2.52
- Efficiency  $\geq 90\%$  at typical load
- Intelligent fan speed control
- Quiet and long-lasting 120mm FDB fan
- Ribbon cables design for enthusiasts
- Powerful +12V single rail design
- Full Japanese electrolytic capacitors
- Intel Latest CPU ready
- Full protections: OCP, OVP, SCP, OPP, OTP
- Conformal coatings for harsh environments

## Product Overview



### 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 2.5A output to enable high conversion efficiency.

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

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

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

### 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.

### Conformal coating from the inside out

Hydro G Pro is covered with conformal coatings to guarantee reliable performance in a harsh environment.



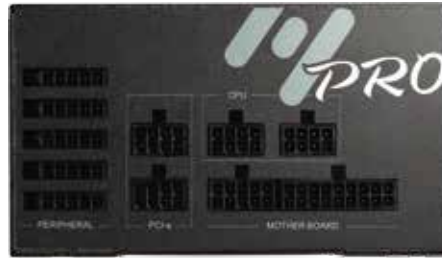
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## Product Overview



650W



750W



850W



1000W

### Server grade design

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



### Full modular design with ribbon cables

Neat build and easy installation to enhance cooling performance.

### User friendly connector allocation

To connect MB with 24 pin & PCI-e pin easily, no cable mess in case.

### 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 with a red or green sticker over the original blue logo to fit their preferences.

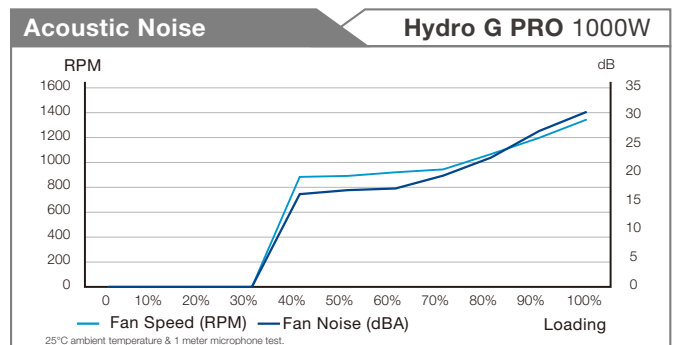
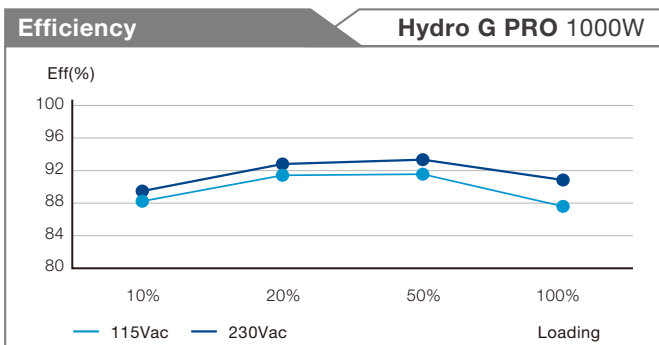
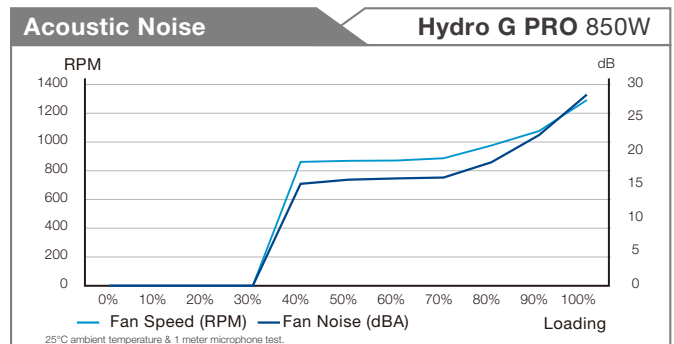
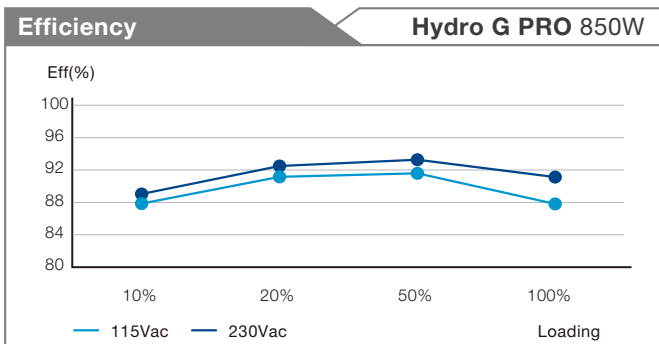
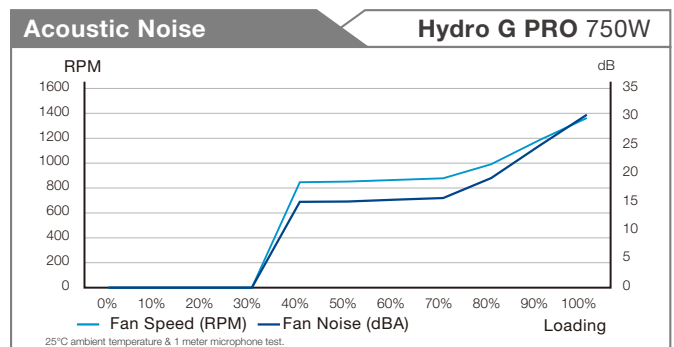
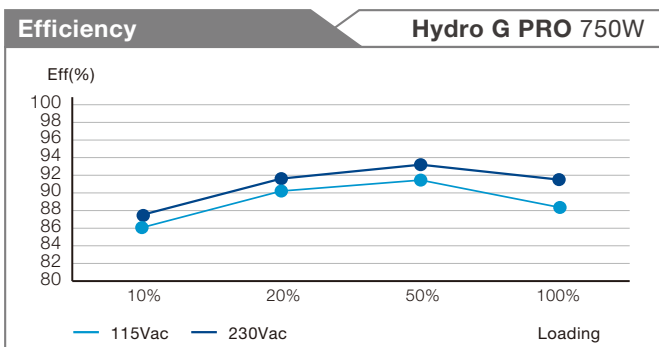
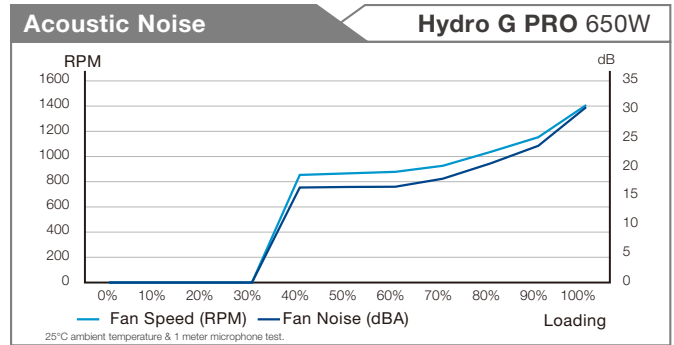
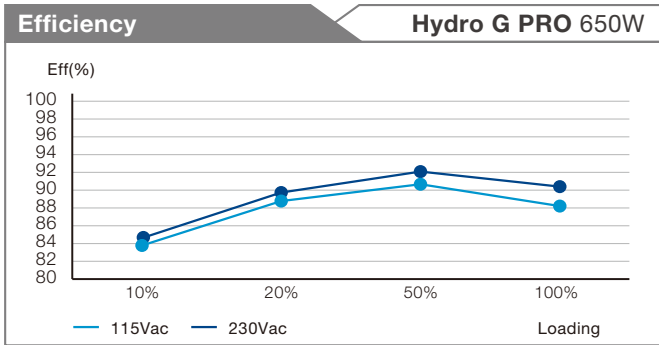




# HYDRO G PRO Series

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## Performance







# HYDRO G PRO Series

650W / 750W / 850W / 1000W

## Rating

<b>650W</b>	<b>AC Input</b>	100-240Vac~ 8-4A 50-60Hz				
	<b>DC Output</b>	+3.3V	+5V	+12V	-12V	+5Vsb
	<b>Max Output Current</b>	20A	20A	54.17A	0.3A	2.5A
	<b>Max Combined Power</b>	100W		650W	3.6W	12.5W
	<b>Total Power</b>	650W				

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

<b>850W</b>	<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	2.5A
	<b>Max Combined Power</b>	120W		850W	3.6W	12.5W
	<b>Total Power</b>	850W				

<b>1000W</b>	<b>AC Input</b>	100-240Vac~ 12-6A 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	2.5A
	<b>Max Combined Power</b>	120W		1000W	3.6W	12.5W
	<b>Total Power</b>	1000W				

## Specifications



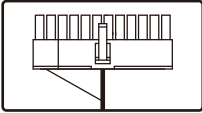
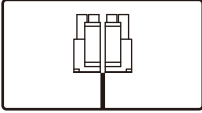
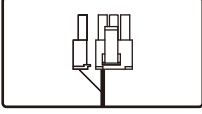
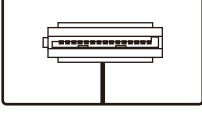
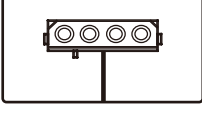
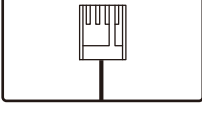
	<b>650W</b>	<b>750W</b>
Model	HG2-650	HG2-750
Type	ATX	ATX
PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V
Input Current	8-4A	10-5A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	650W	750W
Max. Output Power	650W	750W
Fan Type	FDB Fan, 120mm	FDB Fan, 120mm
Efficiency	90%	90%
MTBF	100,000 Hrs	100,000 Hrs
Protection	OCP, OVP, OPP, SCP, OTP	OCP, OVP, OPP, SCP, OTP
Weight		
Dimension(L×W×H)		

## Specifications



	<b>850W</b>	<b>1000W</b>
Model	HG2-850	HG2-1000
Type	ATX	ATX
PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V
Input Current	11-5.5A	16-6A
Input Frequency	50-60Hz	50-60Hz
Output Capacity	850W	1000W
Max. Output Power	850W	1000W
Fan Type	FDB Fan, 120mm	FDB Fan, 120mm
Efficiency	90%	90%
MTBF	100,000 Hrs	100,000 Hrs
Protection	OCP, OVP, OPP, SCP, OTP	OCP, OVP, OPP, SCP, OTP
Weight		
Dimension(L×W×H)		

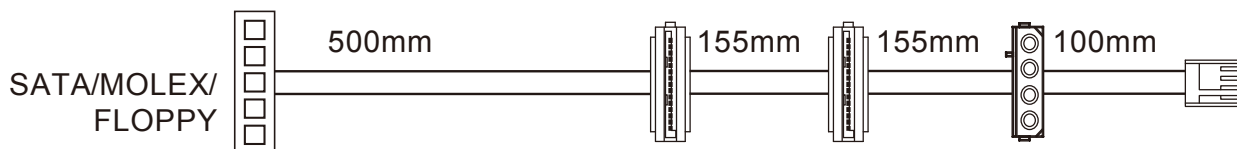
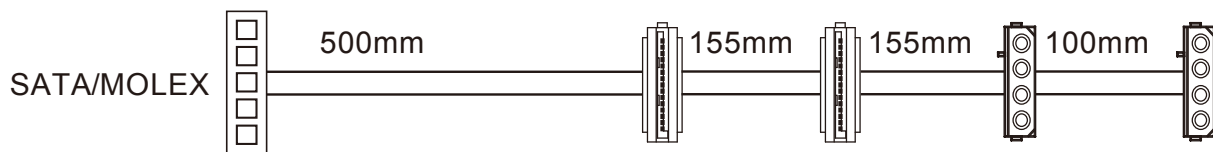
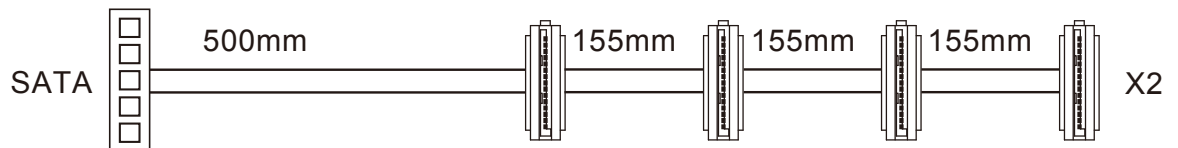
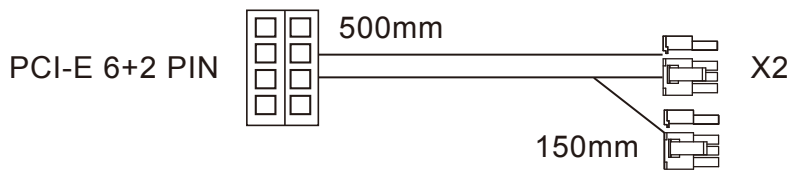
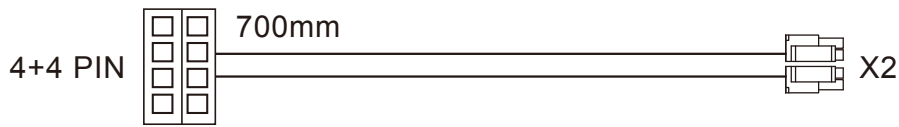
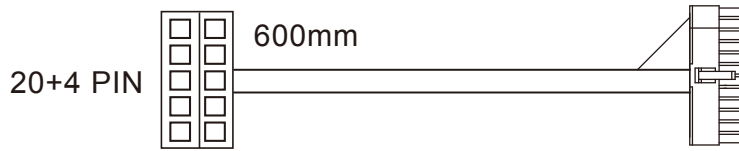
## Connectors

	650W	750W	850W	1000W
 20+4 PIN	1	1	1	1
 4+4 PIN	2	2	2	2
 6+2 PIN	4	4	6	8
 SATA	12	14	14	14
 MOLEX	3	5	5	5
 FLOPPY	1	1	1	1



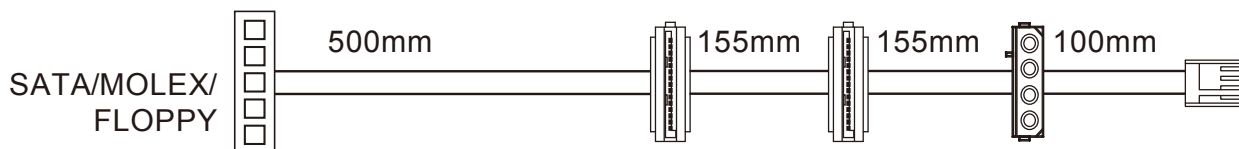
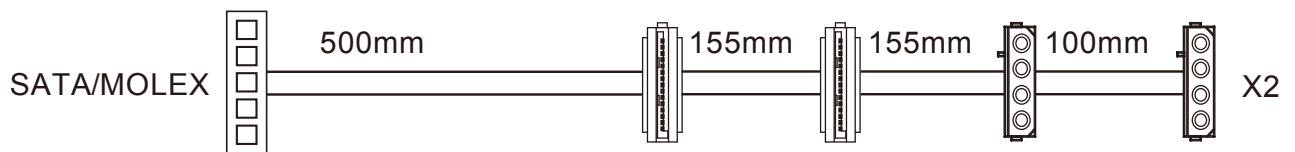
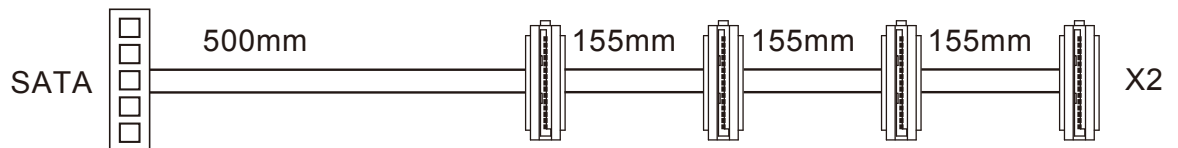
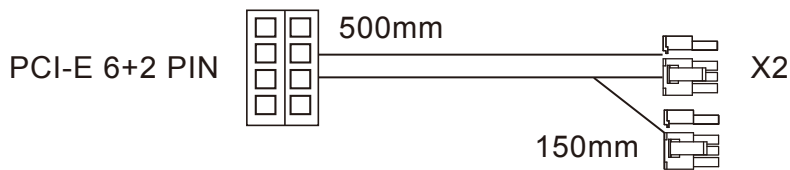
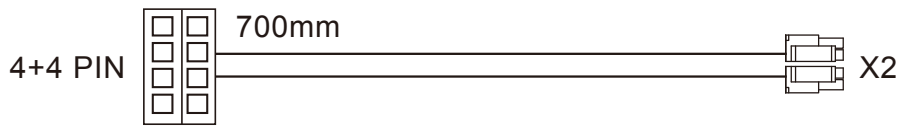
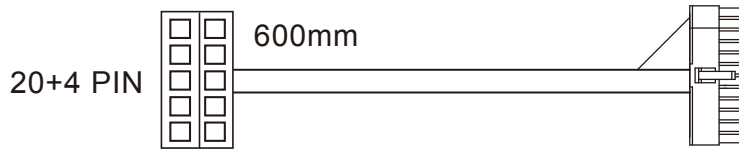
## Cable Length

### 650W



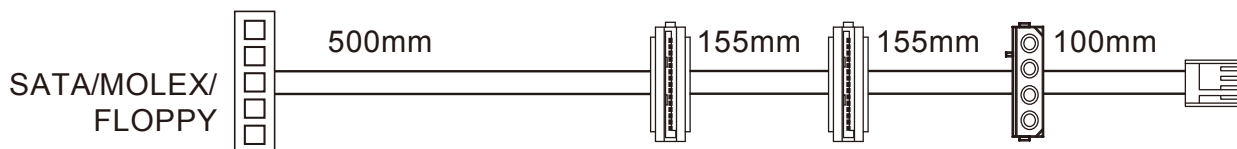
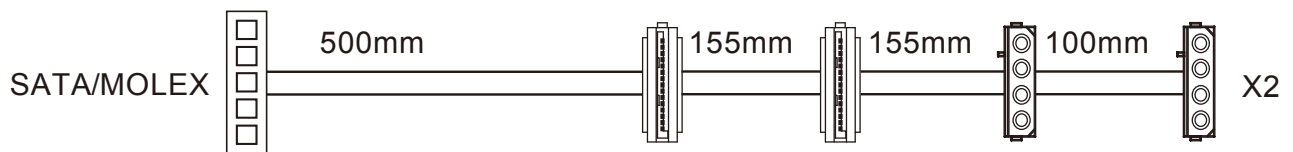
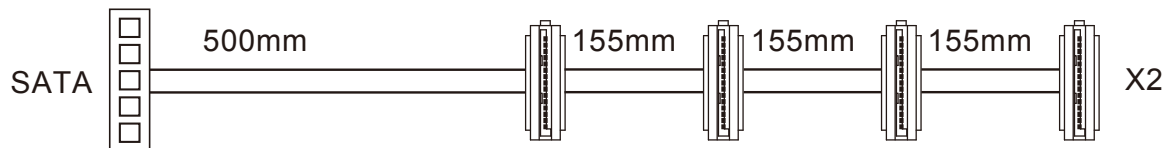
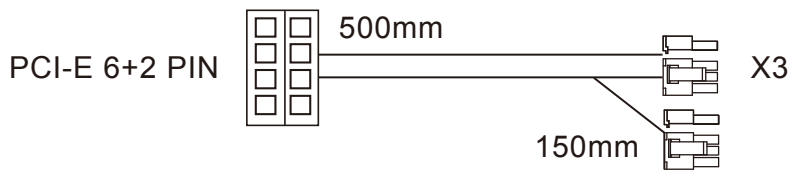
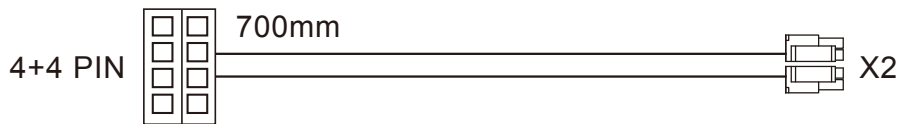
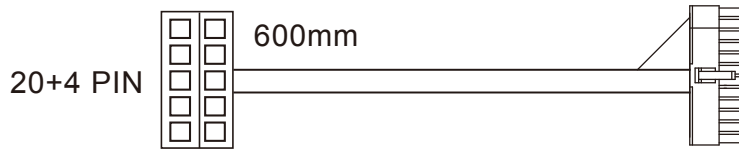
## Cable Length

### 750W



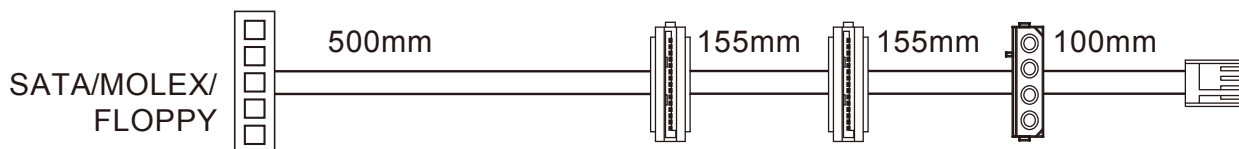
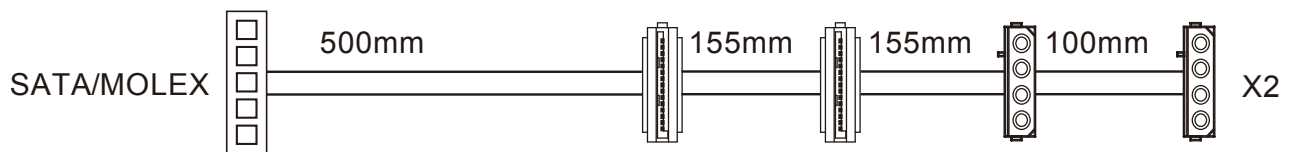
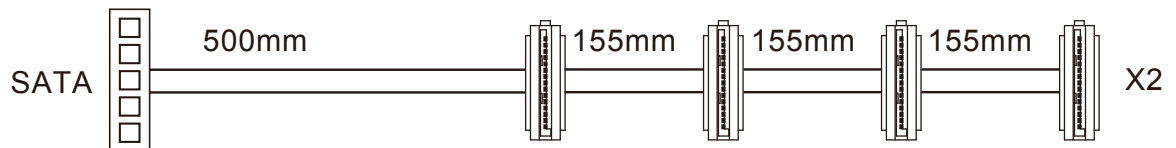
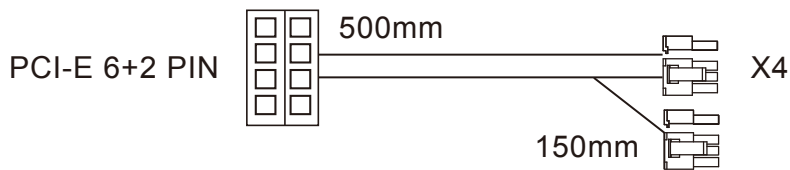
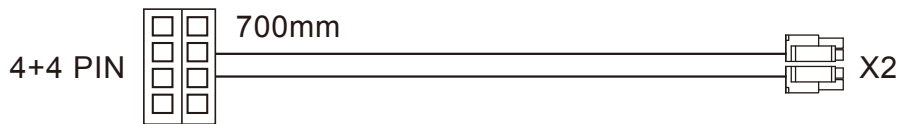
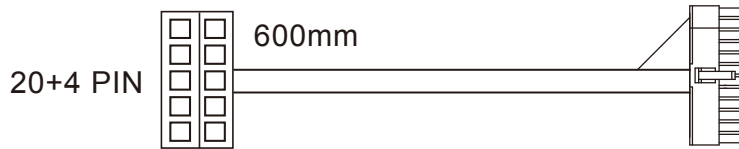
## Cable Length

### 850W



## Cable Length

### 1000W





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650W / 750W / 850W / 1000W

## Package Information

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UPC Code	84568501019 3	84568501020 9
Shipping Dimensions (L×W×H)		
Shipping Weights		
Master Pack Dimension (L×W×H)		
Master Pack Quantity		
Master Pack Weight		
Pallet Quantity		
Country of Origin	China	
Warranty	10 Years	
Additional Information		



# HYDRO G PRO Series

650W / 750W / 850W / 1000W

## Package Information

Model	HG2-850	HG2-1000
EAN Code	471322452168 3	471322452167 6
UPC Code	84568501016 2	84568501015 5
Shipping Dimensions (L×W×H)		
Shipping Weights		
Master Pack Dimension (L×W×H)		
Master Pack Quantity		
Master Pack Weight		
Pallet Quantity		
Country of Origin	China	
Warranty	10 Years	
Additional Information		