



HYDRO G Series

650W / 750W / 850W



Introduction

FSP Hydro G series stands for the needs of PC DIY enthusiasts and gamers who want a high end PSU with stylish ID design but do not want to compromise electronic performance at all. By server grade circuit and advanced thermal layout design, Hydro G series deliver full load (wattage) at 50°C ambient temperature. Silent operation is considered by intelligent fan speed control circuit design with 0dBA function to fulfill gamers need in playing games.

Features



Full Modular

Easy Installation, neat build



Ribbon Cable

Easy Installation, neat build



Quiet and Durable Cooling

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



Zero Noise

Intelligent fan speed control circuit design with 0dBA function

- Unique product ID with changeable side stickers for DIY enthusiasts and gamers
- Intelligent fan speed control circuit design with 0dBA function
- Server grade circuit and advanced thermal layout design
- Complies with newest ATX12V & EPS12V standards
- High efficiency $\geq 90\%$
- Active PFC $\geq 99\%$
- High wattages with 80PLUS® gold certification
- Powerful single +12V rail design
- Advanced full modular design with ribbon cables
- Main japan made capacitor
- SLI and Crossfire ready
- Quiet and long-lasting 135mm FDB fan
- Full protections: OCP, OVP, SCP, OPP, UVP, OTP
- Global safety approved

Product Overview



Server grade design

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

User friendly connector allocation

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

Full modular design with ribbon cable

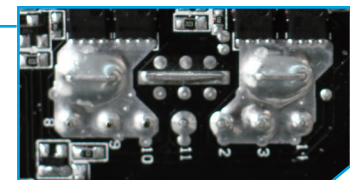
Neat build and easy installation, enhance cooling performance.



3.3V & 5V DC – DC module design

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

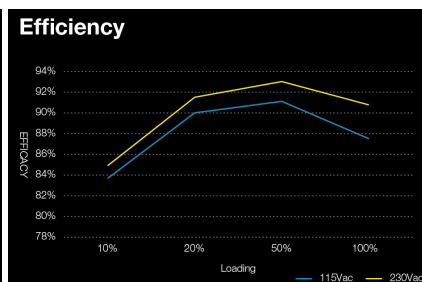
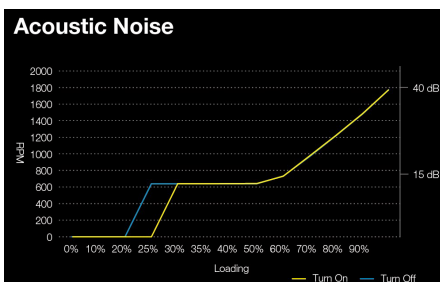
Intelligent fan speed control circuit design with 0dBA function



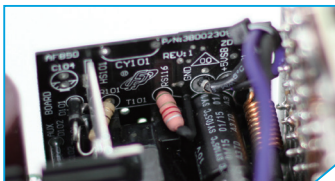
850W

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.



Product Overview

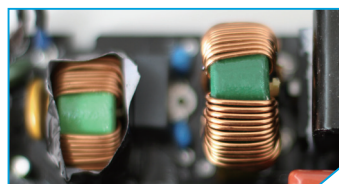
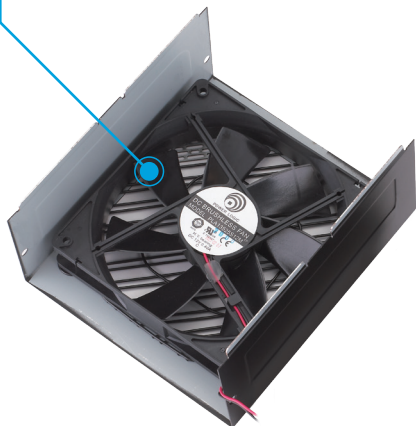


5V standby circuit on separate board

In order to stabilize 3.5A output of 5V standby, Hydro G adopts vertical PCB design to optimize airflow effectively.

135mm FDB fan

Quiet and durable cooling.

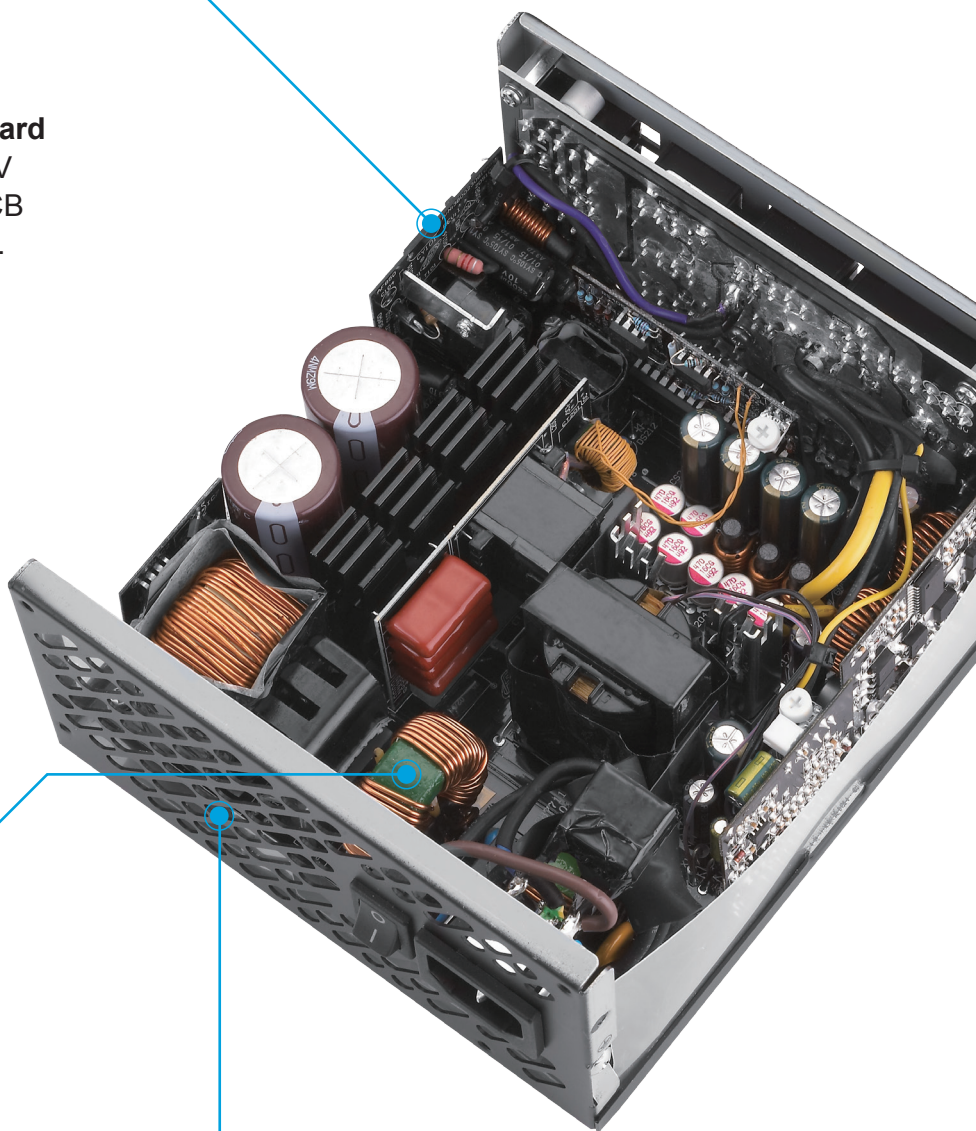


Double EMI filter

Provides superior pure AC mains.

Unique dissymmetry ID and vent-hole design

To minimize fan speed and acoustic from turbulence.






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Rating







Hydro G 850W


Model No.(型號): HG850

AC Input 交流輸入 / 交流輸入	100-240Vac~ 11-5.5A 50-60Hz				
DC Output 直流輸出 / 直流輸出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大電流 / 最大電流	25A	25A	70.83A	0.5A	3.5A
Max Combined Power 最大功率 / 最大功率	150W		850W	6W	17.5W
Total Power 總定功率 / 總定功率	850W				






전북하이테크전자주식회사
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
A/S Tel: 02-777-0774
대표이사: Shenzhen Hui Electronics Co., Ltd.
대표이사: 許文






FC Tested to Comply
With FCC Standards
FOR HOME OR OFFICE USE





barcode



中国製造 Made in China

SWITCHING POWER SUPPLY
CAUTION! HAZARDOUS AREA
SAFETY INSTRUCTIONS:
DO NOT REMOVE THE COVER.
NO SERVICEABLE COMPONENTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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Hydro G 750W

Model No.(型號): HG750

AC Input 交流輸入 / 交流輸入	100-240Vac~ 10-5A 50-60Hz				
DC Output 直流輸出 / 直流輸出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大電流 / 最大電流	25A	25A	62.5A	0.5A	3.5A
Max Combined Power 最大功率 / 最大功率	150W		750W	6W	17.5W
Total Power 總定功率 / 總定功率	750W				




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Hydro G 650W

Model No.(型號): HG650

AC Input 交流輸入 / 交流輸入	100-240Vac~ 8.5-4A 50-60Hz				
DC Output 直流輸出 / 直流輸出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大電流 / 最大電流	25A	25A	54.16A	0.5A	3.5A
Max Combined Power 最大功率 / 最大功率	150W		650W	6W	17.5W
Total Power 總定功率 / 總定功率	650W				




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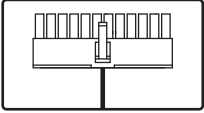
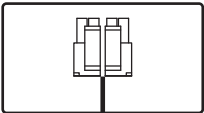
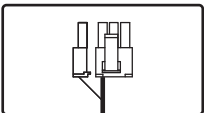

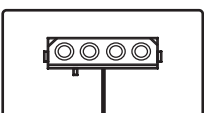
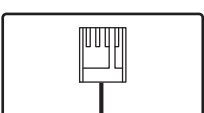
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Specifications

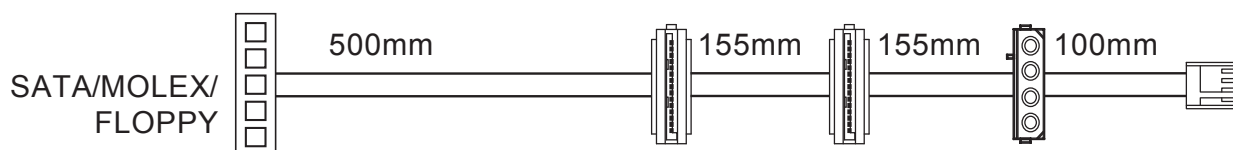
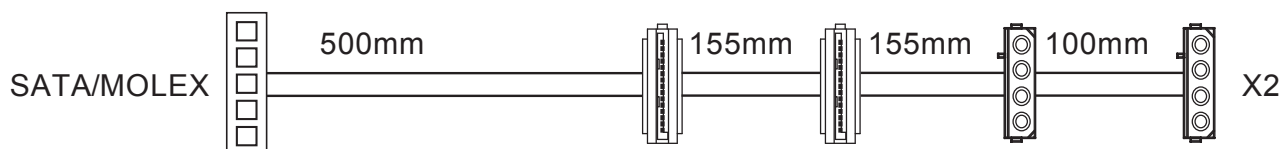
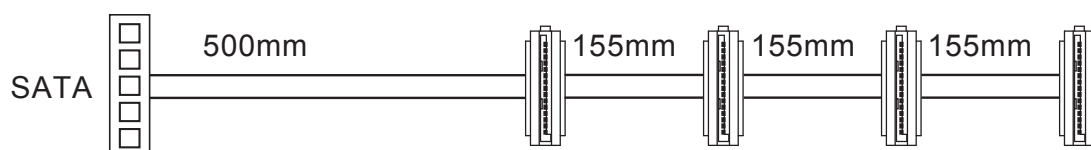
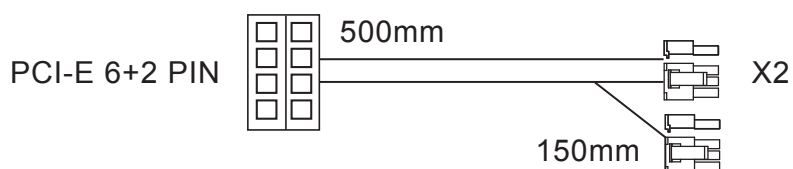
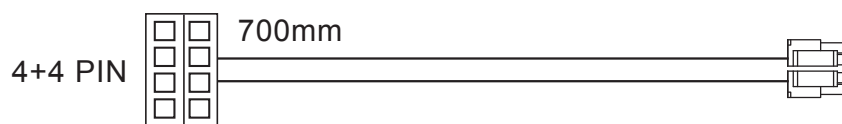
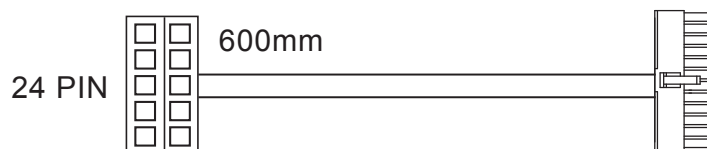
			
	650W	750W	850W
Model	HG650	HG750	HG850
Type	ATX	ATX	ATX
PFC	Active PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V	100V-240V
Input Current	8.5A	10A	11A
Input Frequency	50-60Hz	50-60Hz	50-60Hz
Output Capacity	650W	750W	850W
Max. Output Power	650W	750W	850W
Fan Type	FDB Fan, 135mm	FDB Fan, 135mm	FDB Fan, 135mm
Efficiency	90%	90%	90%
MTBF	100,000 Hrs	100,000 Hrs	100,000 Hrs
Protection	OCP, OVP, OPP, SCP, UVP, OTP	OCP, OVP, OPP, SCP, UVP, OTP	OCP, OVP, OPP, SCP, UVP, OTP
Weight	1.8kg	1.8kg	1.8kg
Dimension(L×W×H)	150 × 170 × 86 mm	150 × 170 × 86 mm	150 × 170 × 86 mm

Connectors

	650W	750W	850W
 24 PIN	1	1	1
 4+4 PIN	1	1	1
 6+2 PIN	4	4	6
 SATA	10	12	12
 MOLEX	5	6	6
 FLOPPY	1	2	2

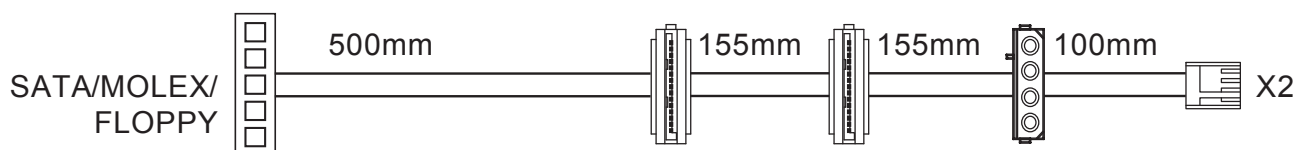
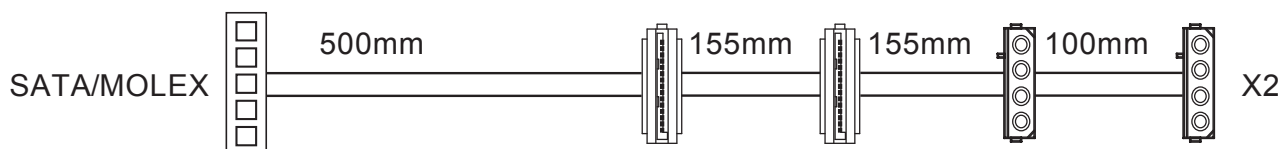
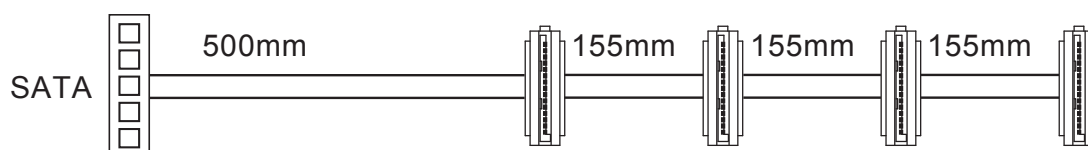
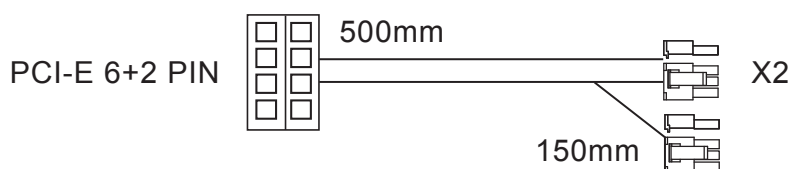
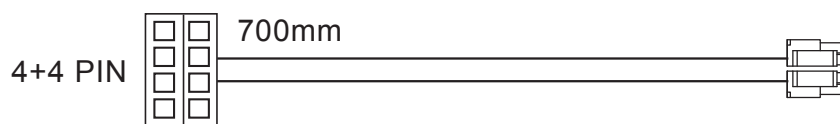
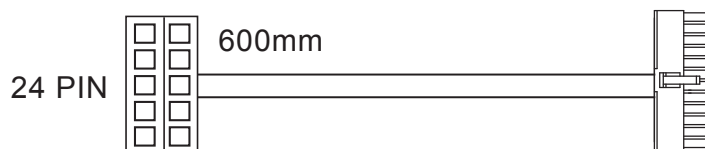
Cable Length

650W



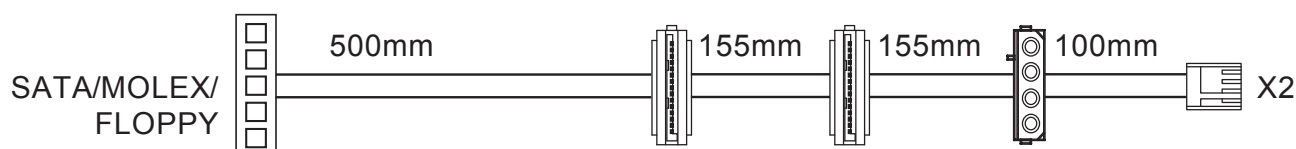
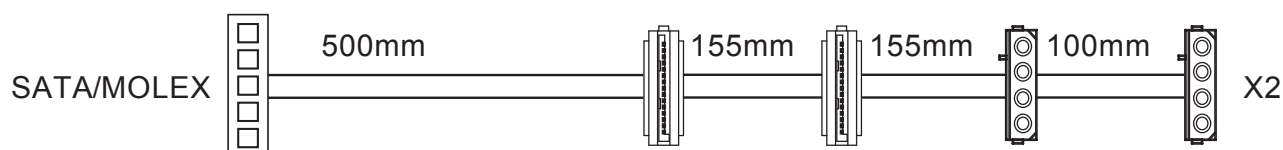
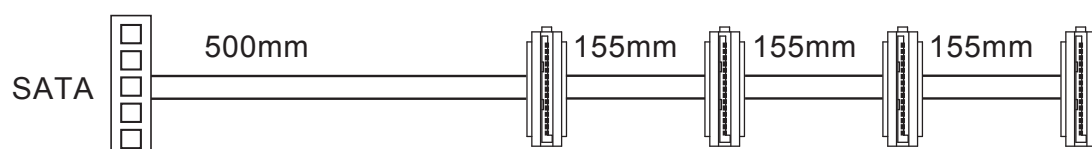
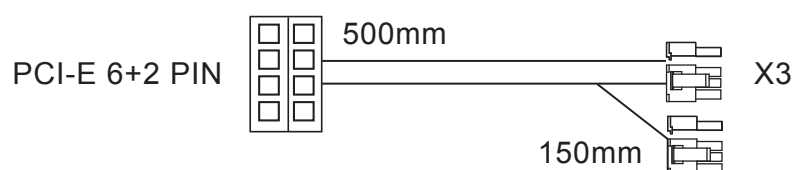
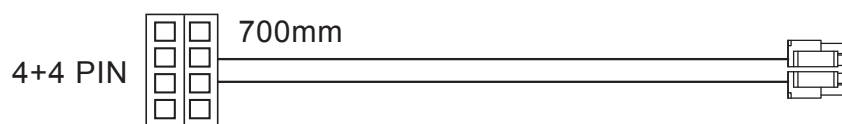
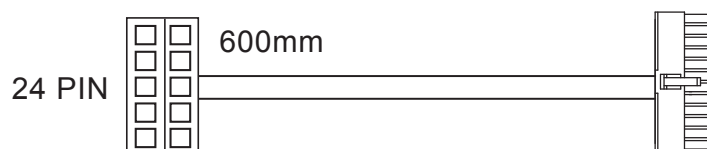
Cable Length

750W



Cable Length

850W





HYDRO G Series

650W / 750W / 850W

Package Information

Model	HG650	HG750	HG850
EAN Code	471114048970 4	471114048969 8	471114048968 1
UPC Code	84568500773 5	84568500772 8	84568500771 1
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	5 Years		
Additional Information			