



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



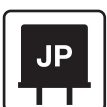
Full Modular

Easy Installation, neat build



Ribbon Cable

Easy Installation, neat build



100% Japan-made E-cap

Reliable power and prolonged life span

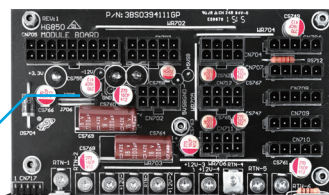
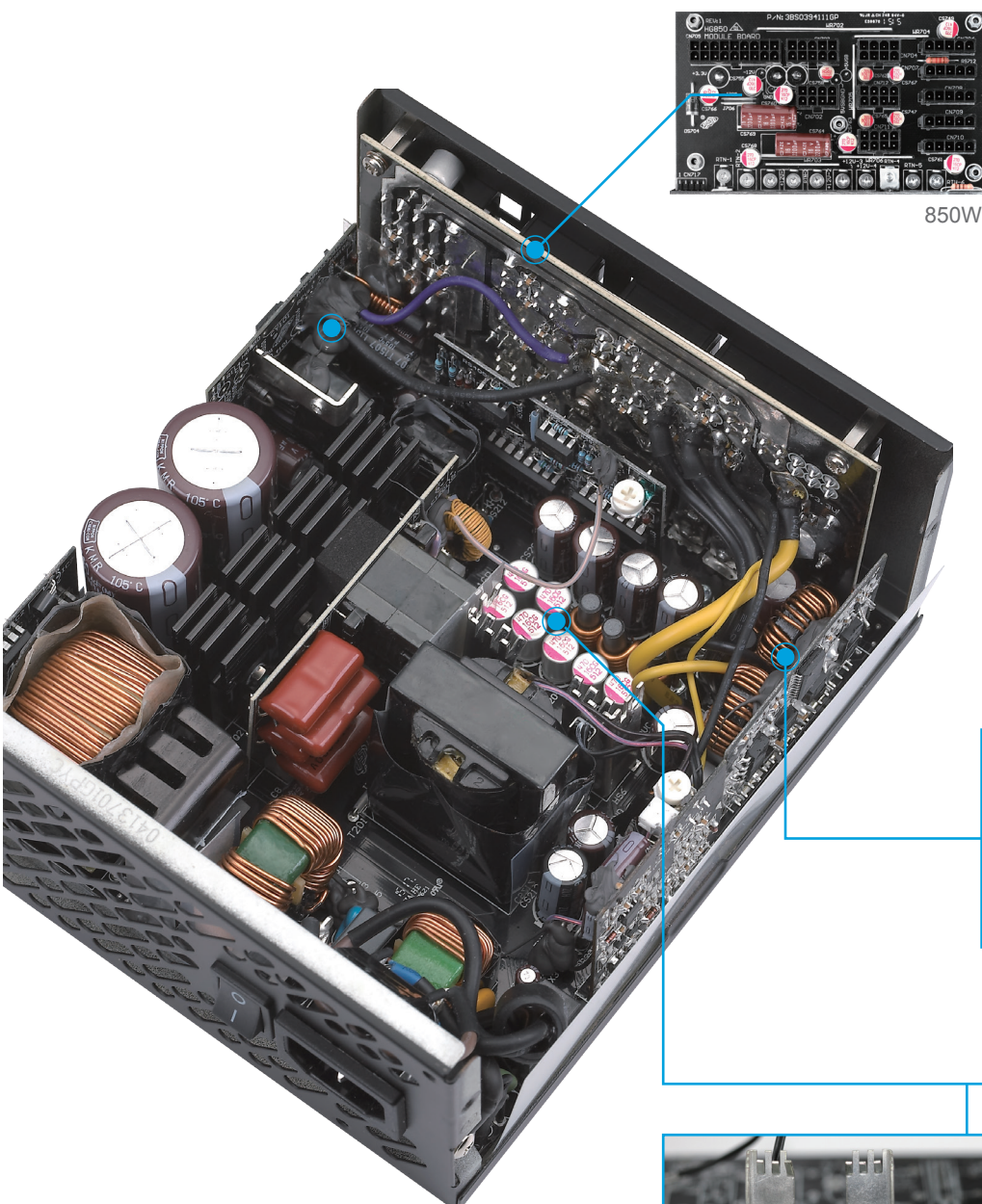


Zero Noise

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
- Full Japan-made electrolytic capacitors
- SLI and Crossfire ready
- Quiet and long-lasting 135mm FDB fan
- Full protections: OCP, OVP, SCP, OPP, UVP, OTP
- Global safety approved

Product Overview



850W

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

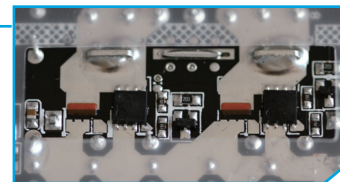
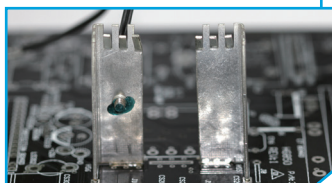
Neat build and easy installation, enhance cooling performance.



3.3V & 5V DC – DC module design

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

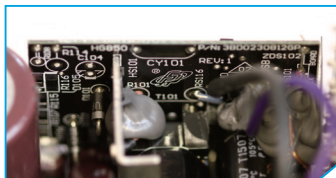
Intelligent fan speed control circuit design with 0dBA function



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

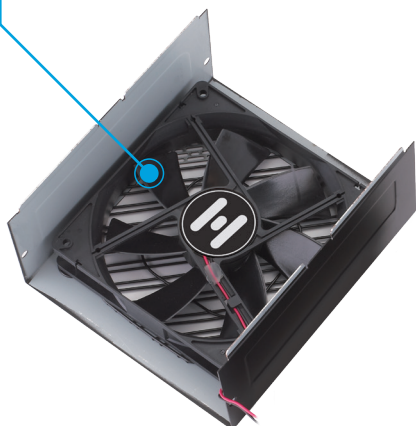


5V standby circuit on separate board

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

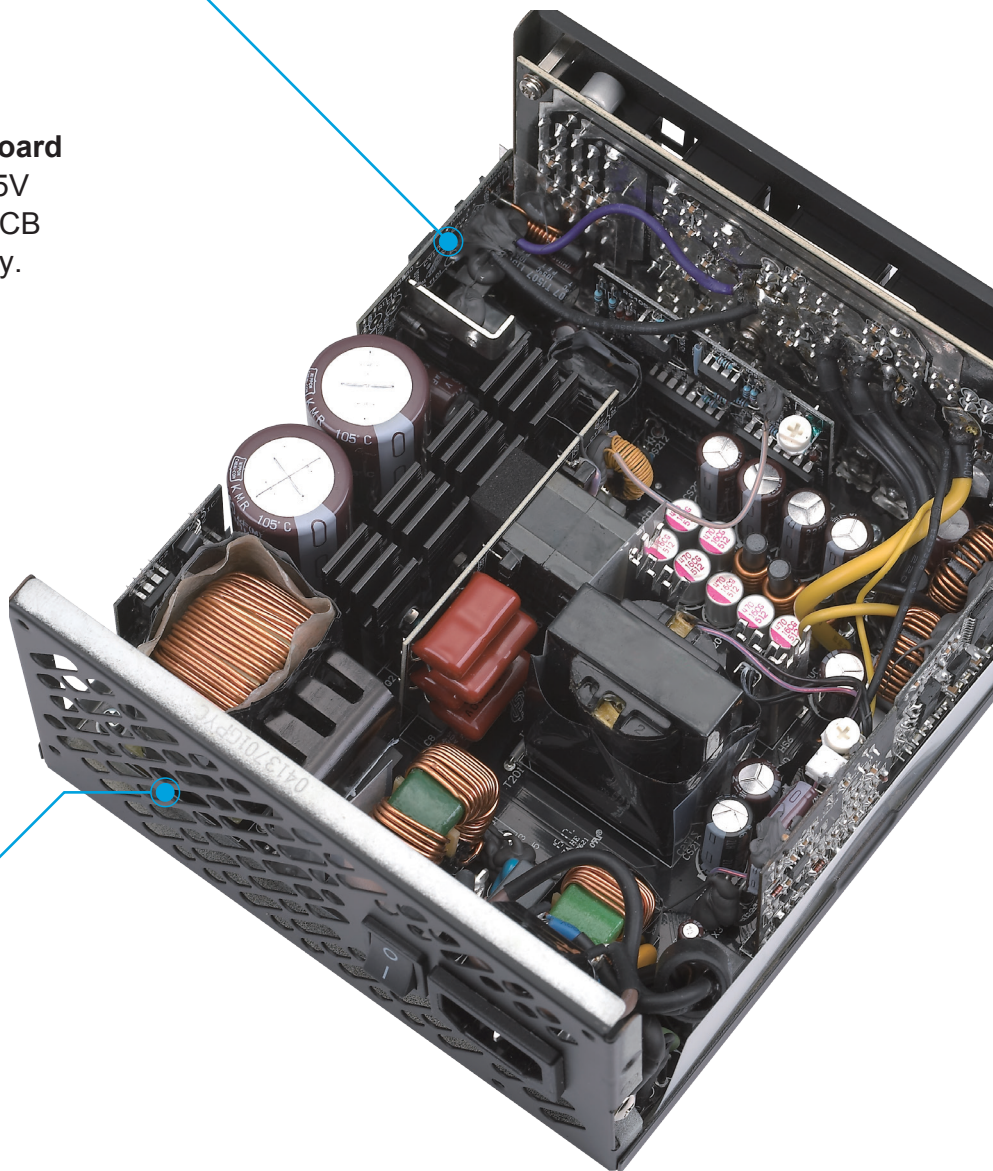
135mm FDB fan

Quiet and durable cooling.

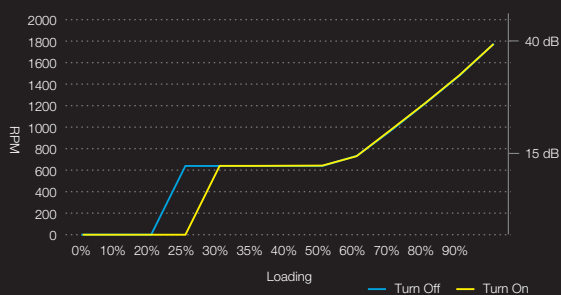


Unique dissymmetry ID and vent-hole design

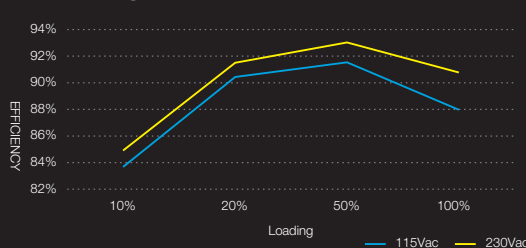
To minimize fan speed and acoustic from turbulence.



Acoustic Noise



Efficiency



Rating

850W

AC Input 交流输入	100-240Vac~ 11-5.5A 50-60Hz				
DC Output 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	25A	25A	70.83A	0.5A	3.5A
Max Combined Power 最大功率	150W		850W	6W	17.5W
Total Power 额定功率	850W				




750W

AC Input 交流输入	100-240Vac~ 10-5A 50-60Hz				
DC Output 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	25A	25A	62.5A	0.5A	3.5A
Max Combined Power 最大功率	120W		750W	6W	17.5W
Total Power 额定功率	750W				

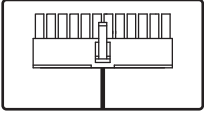
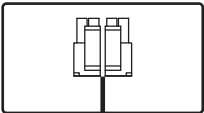
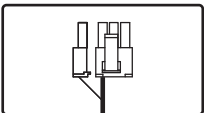

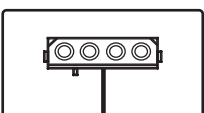
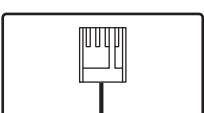
650W

AC Input 交流输入	100-240Vac~ 8.5-4A 50-60Hz				
DC Output 直流输出	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current 最大电流	25A	25A	54.16A	0.5A	3.5A
Max Combined Power 最大功率	150W		650W	6W	17.5W
Total Power 额定功率	650W				

Specifications

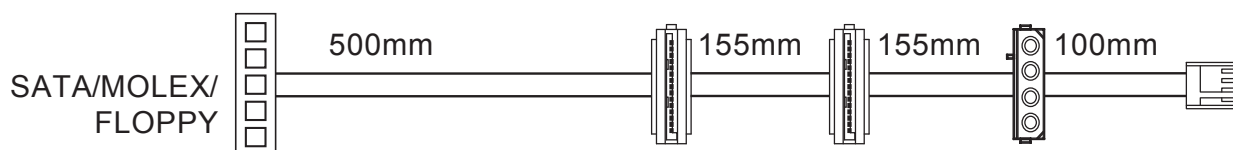
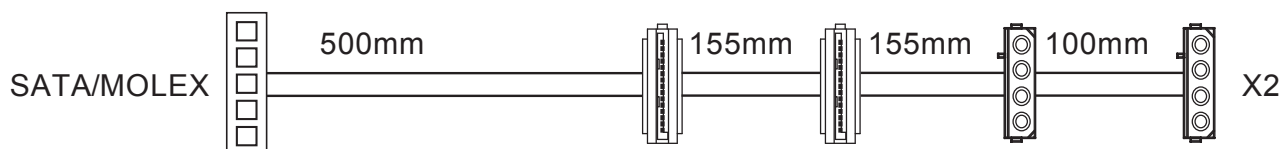
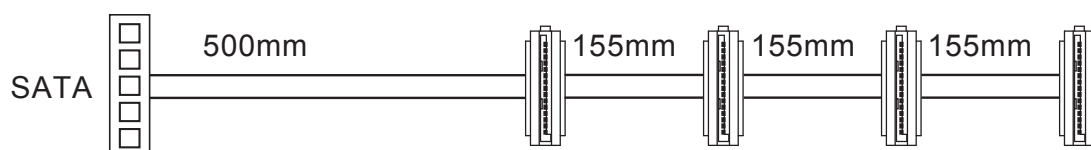
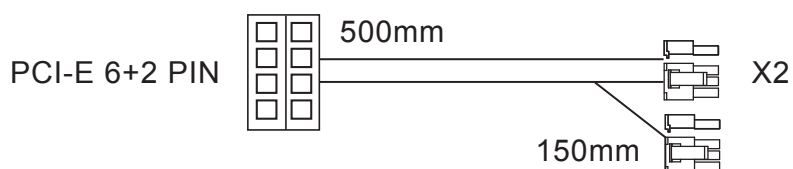
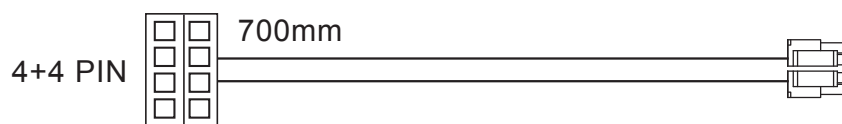
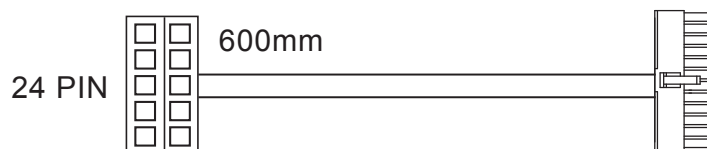
			
	650W	750W	850W
Model	HG650	HG750	HG850
Type	ATX	ATX	ATX
PFC	Active PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V	100V-240V
Input Current	8.5A	10A	11A
Input Frequency	50-60Hz	50-60Hz	50-60Hz
Output Capacity	650W	750W	850W
Max. Output Power	650W	750W	850W
Fan Type	FDB Fan, 135mm	FDB Fan, 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
 <p>24 PIN</p>	1	1	1
 <p>4+4 PIN</p>	1	1	1
 <p>6+2 PIN</p>	4	4	6
 <p>SATA</p>	10	12	12
 <p>MOLEX</p>	5	6	6
 <p>FLOPPY</p>	1	2	2

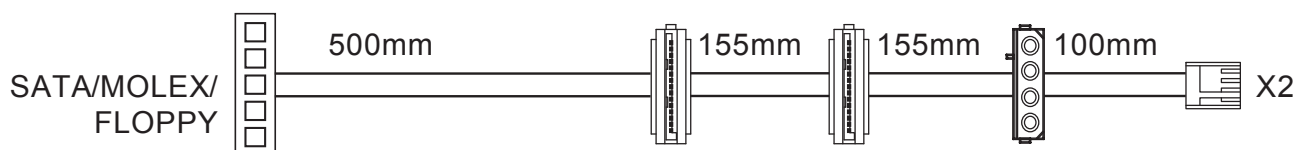
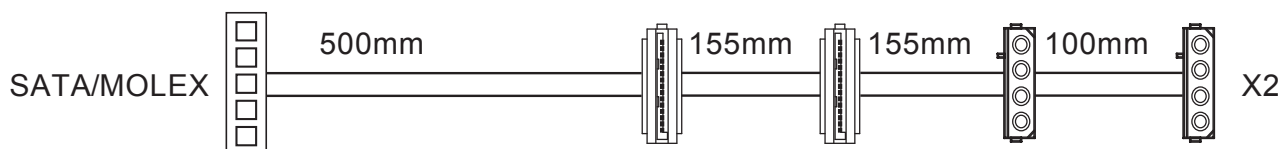
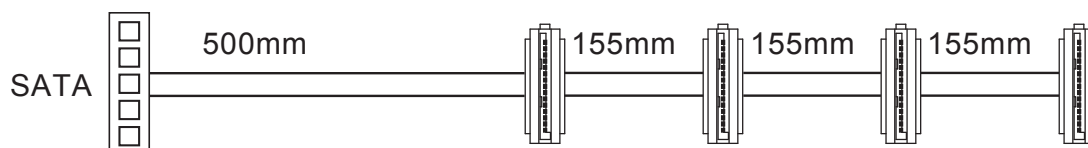
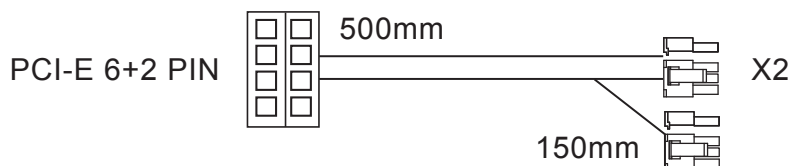
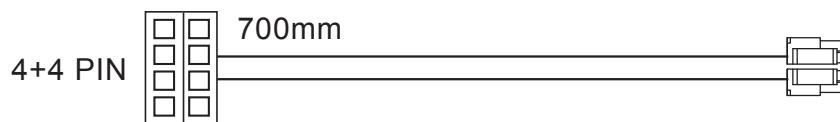
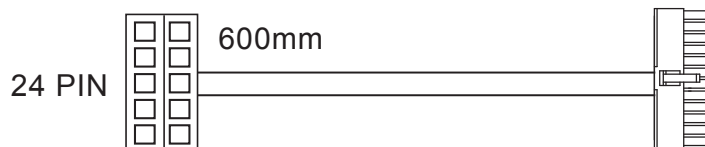
Cable Length

650W



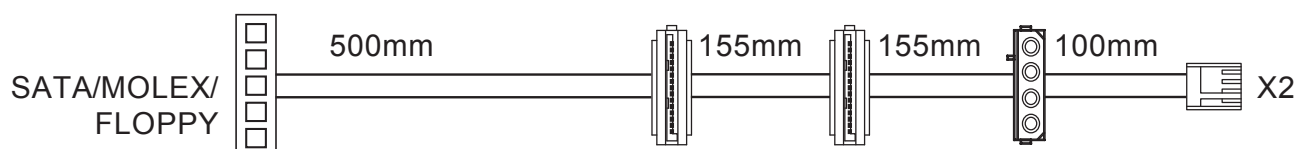
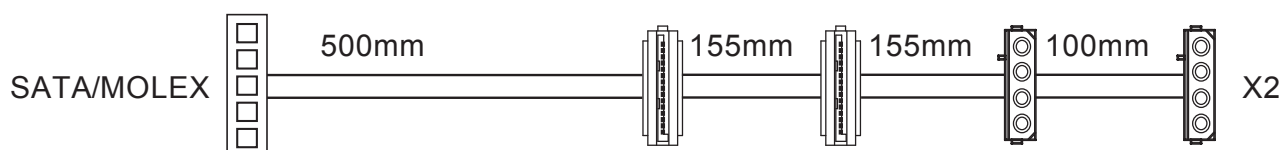
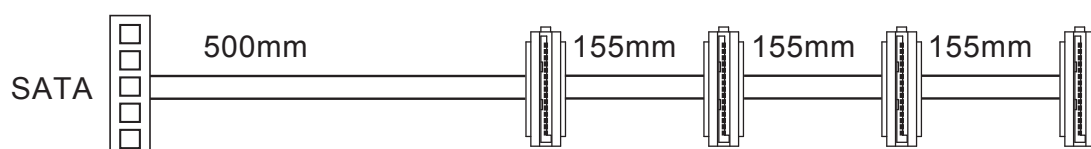
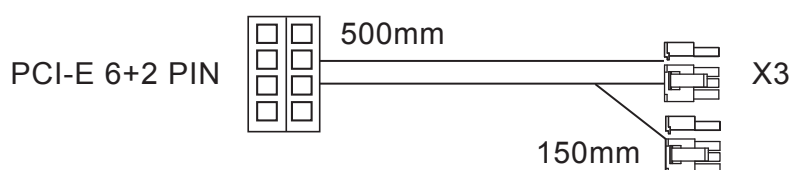
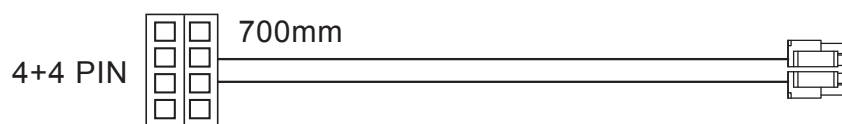
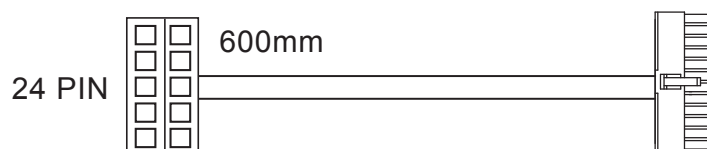
Cable Length

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			