



HYDRO GE Series

450W / 550W / 650W



Introduction

Hydro GE 80 Plus® Gold Power Supply is designed to maximize cooling efficiency with features such as a 135mm FDB fan with thermal control design, internal component arrangement for increased airflow, enhanced heat dissipation and efficient energy conversion. This Hydro GE series also features changeable logos that allow DIY enthusiasts to match the logo with the rest of the hardware.

Features



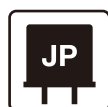
Full Modular

Easy Installation, neat build



Ribbon Cable

Easy Installation, neat build



100% Japan-made E-cap

Reliable power and prolonged life span

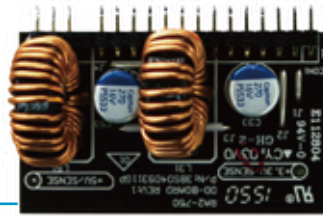


Quiet and Durable Cooling

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

- Complies with ATX12 v2.4 & EPS12 v2.92
- High efficiency $\geq 90\%$
- Active PFC ≥ 0.9
- 80PLUS® Gold certified
- Changeable side stickers for DIY enthusiasts and gamers
- +12V Single-rail design
- Full modular with ribbon Cables
- Full Japanese electrolytic capacitors
- Supports 6+2 pin PCI-Express connectors
- Quiet and long-lasting 135mm FDB fan
- Complete protections: OCP, OVP, SCP, OPP, UVP, OTP
- Global safety approved

Product Overview



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.

Full Modular Design with Ribbon Cable

Neat build and easy installation, enhance cooling performance.



100% Japan-made E-Cap

Japan-made electrolytic capacitors endure over 100° C degree temperature, it ensures safety on spare parts for prolong lifespan and reliability.

Special Cooling Design for 12V Circuit

12V circuit offers most power to key components such as VGA and it generates heat easily to affect performance. An advanced 12V cooling design to dissipate heat quickly and keep PSU in optimal cooling environment.



135mm FDB Fan

Quiet and durable cooling.



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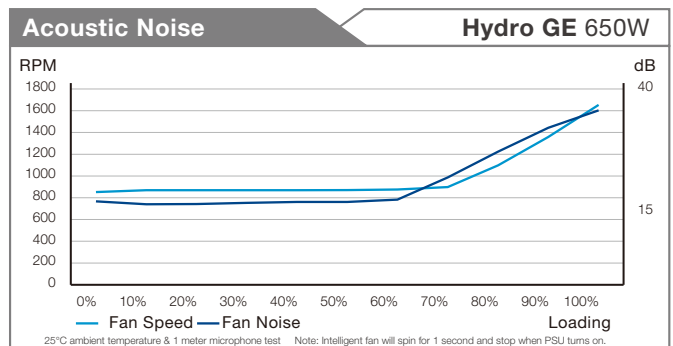
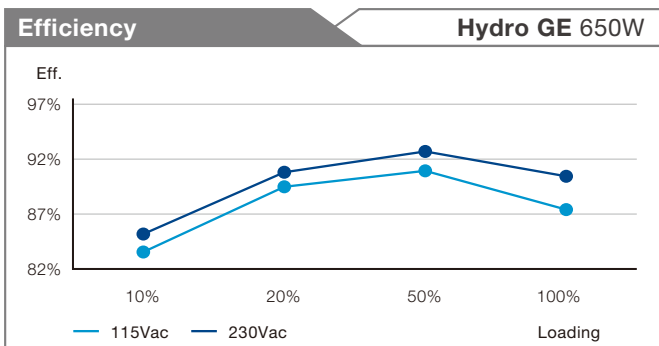
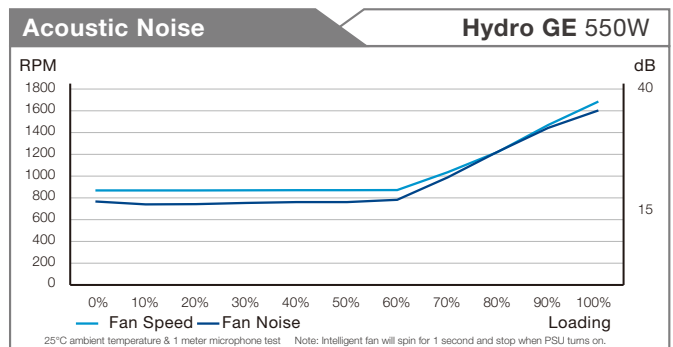
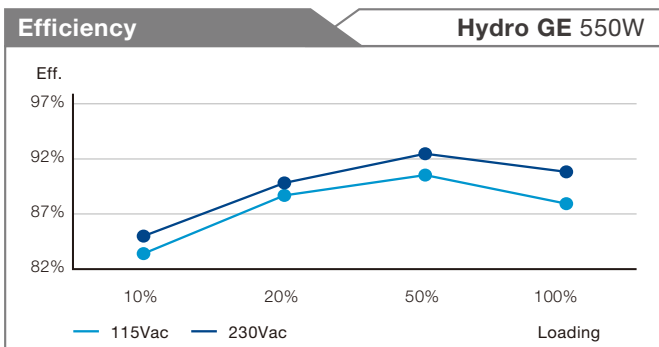
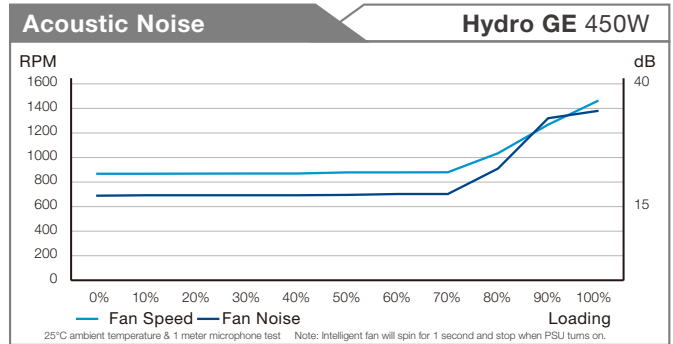
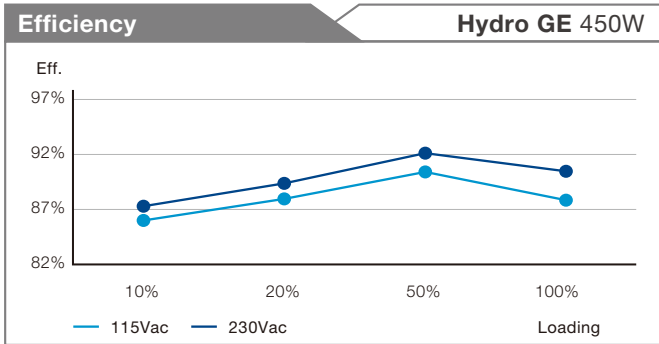
Product Overview

Choose Your Logo

The FSP Hydro GE series features changeable logos. 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 either a red or green sticker over the original blue logo to fit their preferences.



Performance





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Rating

450W	AC Input	100-240Vac~ 8-4A 60-50Hz				
	DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	Max Output Current	20A	20A	37.5A	0.3A	2.5A
	Max Combined Power	100W		450W	3.6W	12.5W
	Total Power	450W				

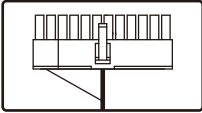
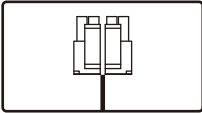
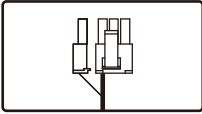
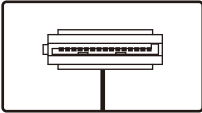
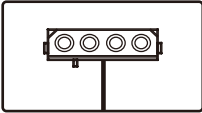
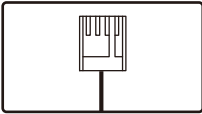
550W	AC Input	100-240Vac~ 8-4A 60-50Hz				
	DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	Max Output Current	20A	20A	45.84A	0.3A	2.5A
	Max Combined Power	100W		550W	3.6W	12.5W
	Total Power	550W				

650W	AC Input	100-240Vac~ 10-5A 60-50Hz				
	DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	Max Output Current	20A	20A	54.16A	0.3A	2.5A
	Max Combined Power	120W		650W	3.6W	12.5W
	Total Power	650W				

Specifications

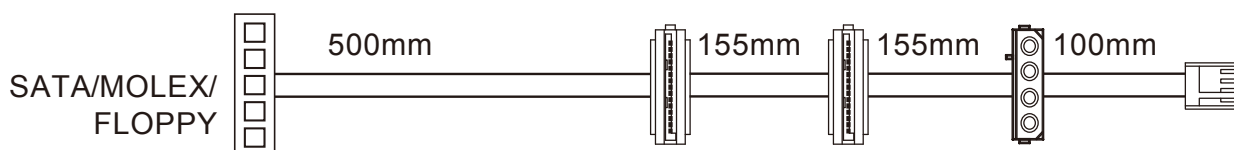
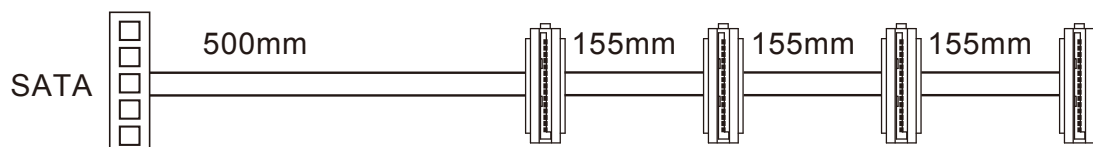
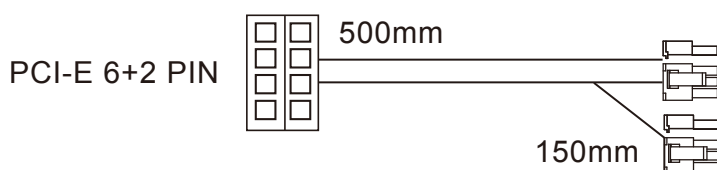
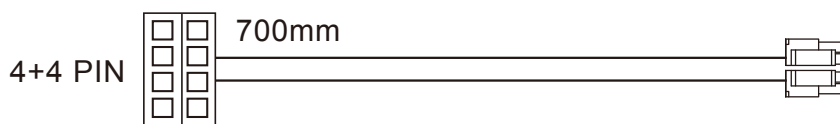
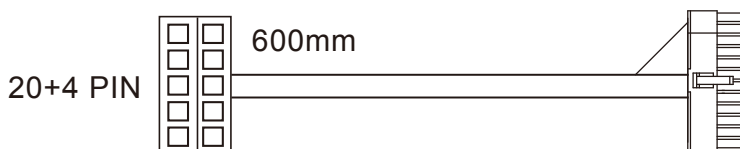
			
	450W	550W	650W
Model	HGE450	HGE550	HGE650
Type	ATX	ATX	ATX
PFC	Active PFC	Active PFC	Active PFC
Input Voltage	100V-240V	100V-240V	100V-240V
Input Current	8-4A	8-4A	10-5A
Input Frequency	60-50Hz	60-50Hz	60-50Hz
Output Capacity	450W	550W	650W
Max. Output Power	450W	550W	650W
Fan Type	FDB Fan, 135mm	FDB 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			
Dimension(L×W×H)	150 × 170 × 86 mm	150 × 170 × 86 mm	150 × 170 × 86 mm

Connectors

	450W	550W	650W
 20+4 PIN	1	1	1
 4+4 PIN	1	1	1
 6+2 PIN	2	4	4
 SATA	6	8	12
 MOLEX	1	3	3
 FLOPPY	1	1	1

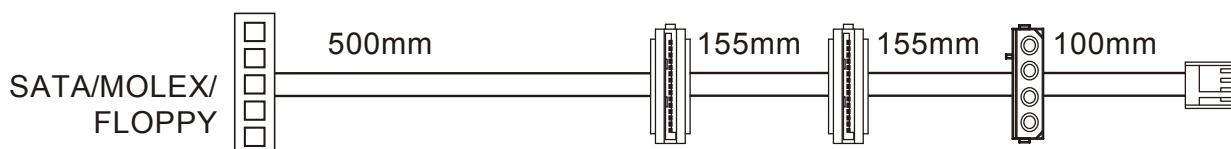
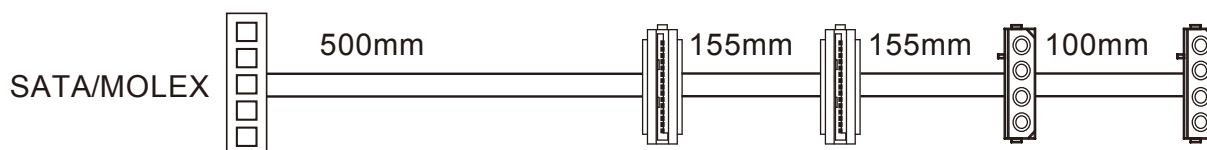
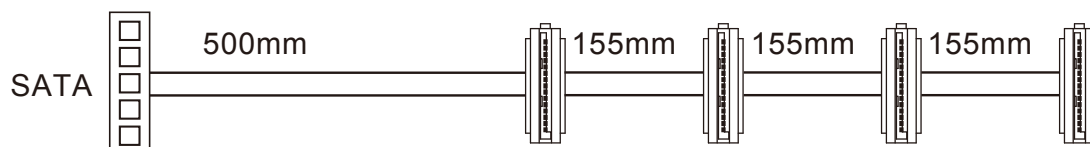
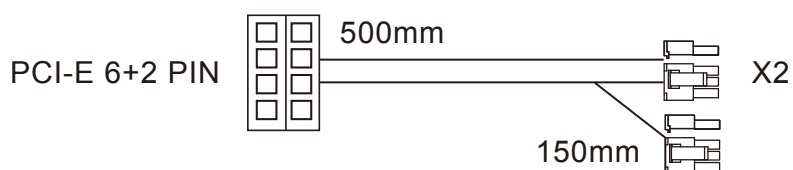
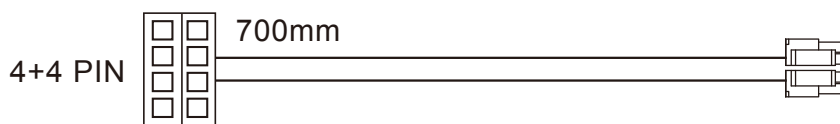
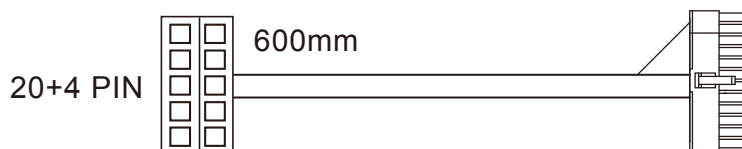
Cable Length

450W



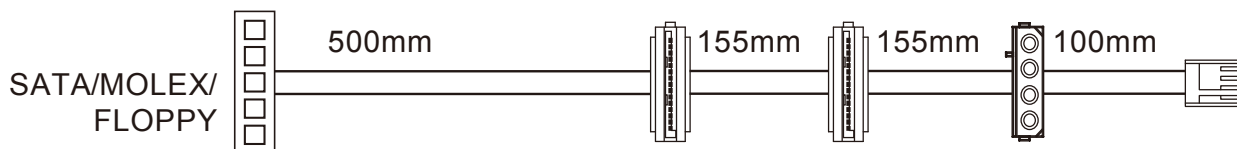
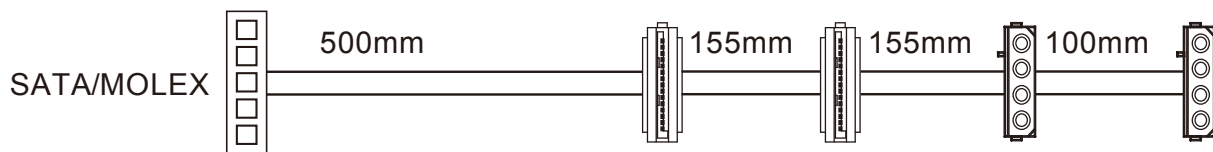
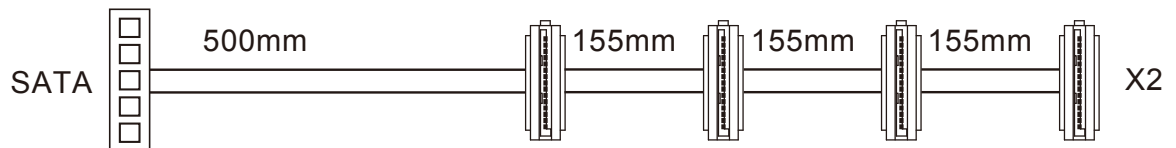
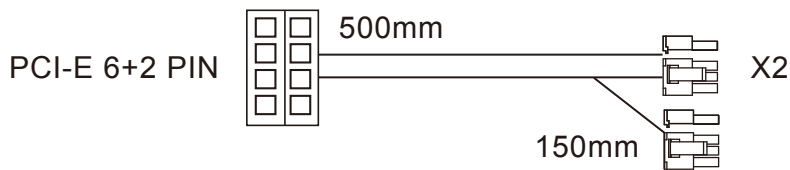
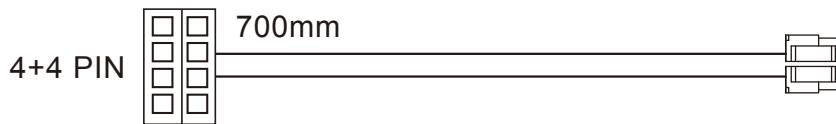
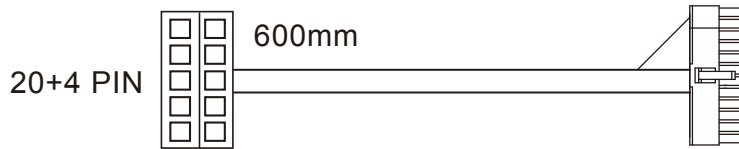
Cable Length

550W



Cable Length

650W





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Package Information

Model	HGE450	HGE550	HGE650
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UPC Code	84568500948 7	84568500949 4	84568500950 0
Shipping Dimensions (L×W×H)	327 × 245 × 96 mm		
Shipping Weights			
Master Pack Dimension (L×W×H)	540 × 275 × 351 mm		
Master Pack Quantity	5 retail boxes per master package		
Master Pack Weight			
Pallet Quantity	200 (5 retail boxes × 40 master boxes)		
Country of Origin	China		
Warranty	5 Years		
Additional Information			