



# HYPER M 85<sup>+</sup> Series

550W / 650W



## Introduction

Hyper M 85<sup>+</sup> Series, FSP brand new 80 PLUS<sup>®</sup> Bronze semi-modular ATX PSU, featured with DC to DC module and +12V single-rail design, taken with full Japanese e-capacitors and quiet 120mm silent fan, built in with complete protections: OCP, OVP, SCP, OPP, OTP and approved by global safety regulation.

Hyper M 85<sup>+</sup> Series comes out with two models – 550W and 650W.

## Features



### DC to DC module

Providing high efficient, stable power



### Quiet and Durable Cooling

20% Loading < 18dBA, 50% Loading < 19dBA,  
100% Loading < 25dBA



### Semi-modular Ribbon Cable Design

Easy installation, Ideal solution for applications  
with space constraint issue

- Complies with ATX12 v2.4 & EPS12 v2.92
- High Efficiency  $\geq 85\%$  @ Typical Load
- Active PFC  $\geq 0.9$
- Comply with 80PLUS<sup>®</sup> Bronze Certification
- +12V Single-Rail Design
- Full Japanese E-capacitors
- Semi Modular Design with Ribbon Cable
- Quiet 120mm Silent Fan
- Complete Protections: OCP, OVP, SCP, OPP, OTP
- Global Safety Approved



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## Product Overview



### DC to DC Module Design

+12V SR circuit, combining both +3.3V and +5V DC-DC modules, offers supreme efficiency, voltage stability and high system compatibility especially in cross regulation (unbalanced load ) mode.

### Low Noise

120mm quiet fan and high ventilation- effect fan guard design guarantees it spins quietly and keeps cooling under maximum operation.

### Full Japanese E-capacitors

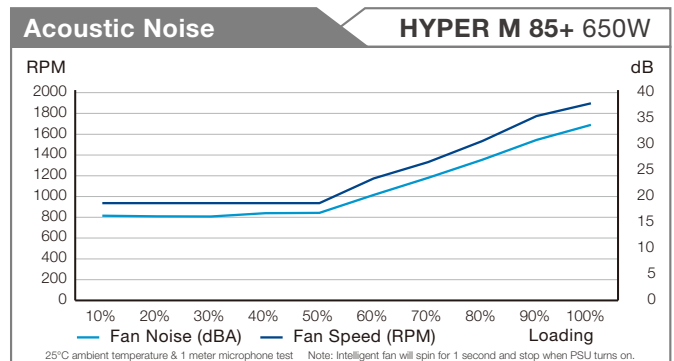
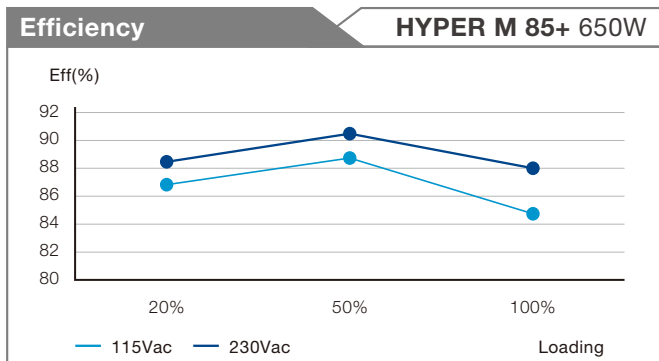
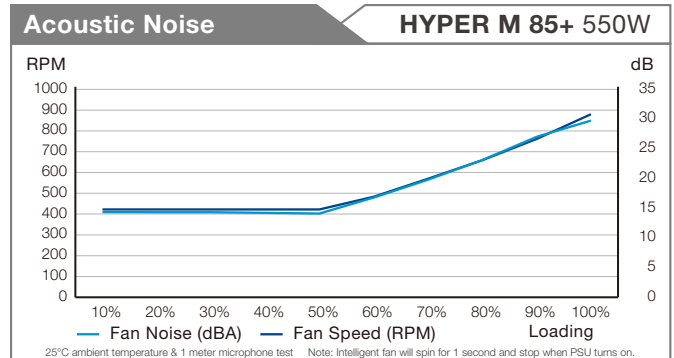
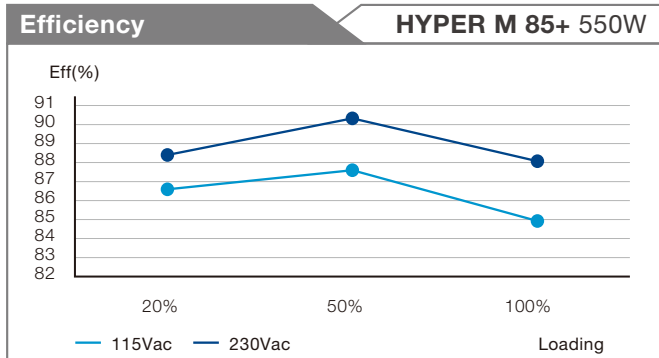
Stable, durable components lead long product lifespan.

### Semi-modular Design with Flat Black Ribbon Cable

Easy installation, an ideal solution for applications with space constraint issue.



## Performance





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## Rating

<b>550W</b>	<b>AC Input</b>	100-240Vac~ 10-5A 50-60Hz				
	<b>DC Output</b>	+3.3V	+5V	+12V	-12V	+5Vsb
	<b>Max Output Current</b>	20A	20A	45.84A	0.3A	2.5A
	<b>Max Combined Power</b>	100W		550W	3.6W	12.5W
	<b>Total Power</b>	550W				

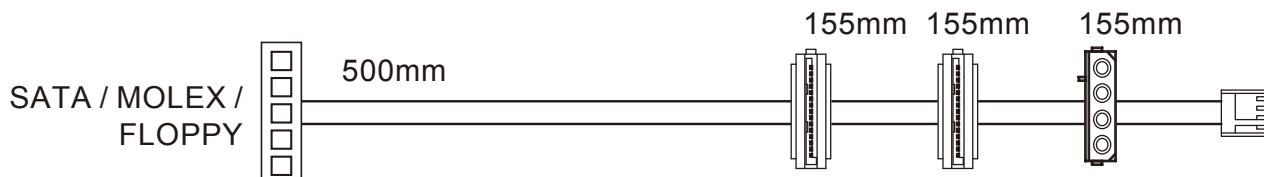
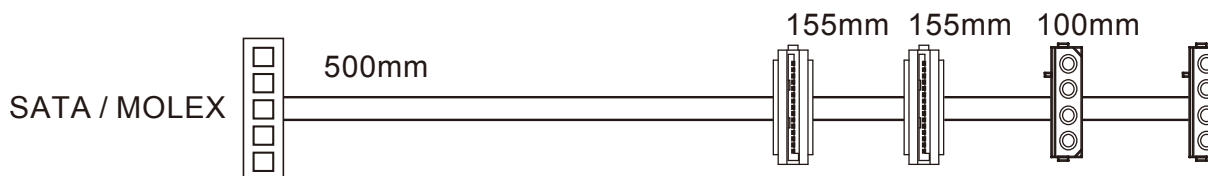
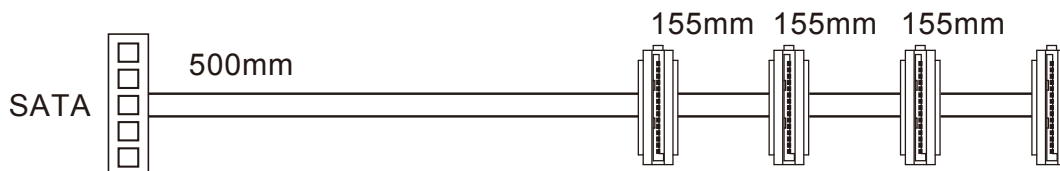
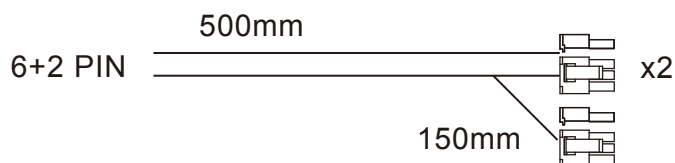
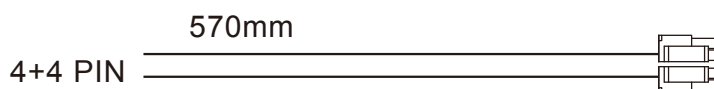
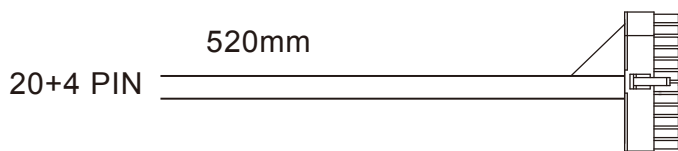
<b>650W</b>	<b>AC Input</b>	100-240Vac~ 10-5A 50-60Hz				
	<b>DC Output</b>	+3.3V	+5V	+12V	-12V	+5Vsb
	<b>Max Output Current</b>	20A	20A	54.17A	0.3A	2.5A
	<b>Max Combined Power</b>	100W		650W	3.6W	12.5W
	<b>Total Power</b>	650W				

## Specifications

		
Model	HA550M	HA650M
Type	ATX PSU	ATX PSU
PFC	Active PFC	Active PFC
Input Voltage	100-240 Vac	100-240 Vac
Input Current	10-5A	10-5A
Input Frequency	60-50 Hz	60-50 Hz
Output Capacity	550W	650W
Max. Output Power	550W	650W
Fan Type	Sleeve Fan, 120mm	Sleeve Fan, 120mm
Efficiency	85%	85%
MTBF	100,000 Hrs.	100,000 Hrs.
Protection	OCP, OVP, SCP, OPP, OTP	OCP, OVP, SCP, OPP, OTP
Weight	1.97 kg	1.99 kg
Dimension(L×W×H)	15 x 16.5 x 8.6 cm 5.9 x 16.5 x 13.38 inch	15 x 16.5 x 8.6 cm 5.9 x 16.5 x 13.38 inch

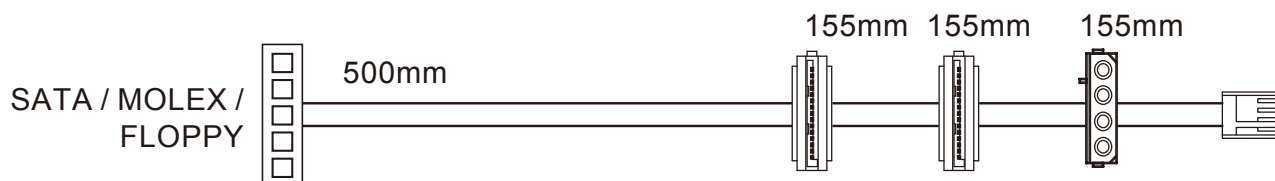
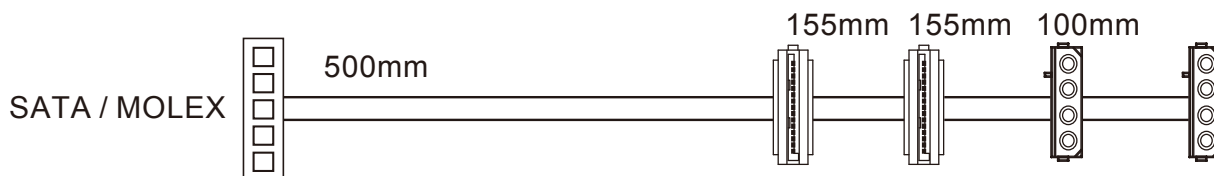
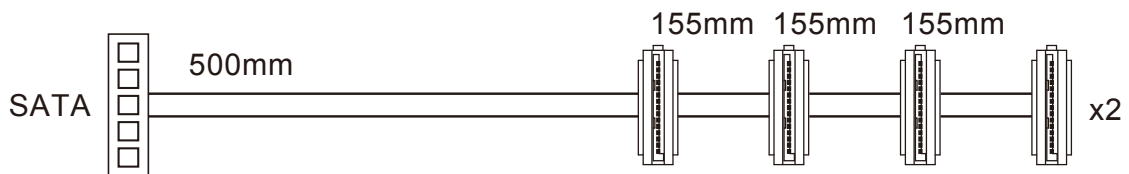
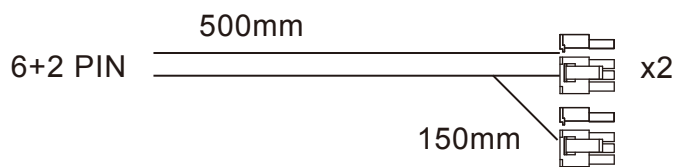
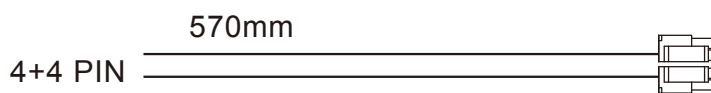
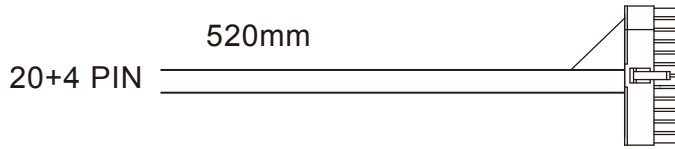
## Cable Length

### 550W



## Cable Length

### 650W





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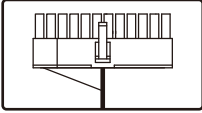
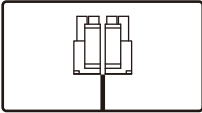
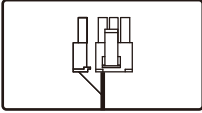
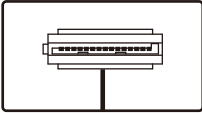
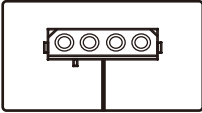
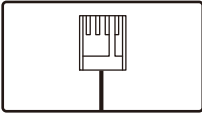
550W / 650W

## Package Information

Model	HA550M	HA550
EAN Code	4713224520464	4713224520471
UPC Code	845685009234	845685009241
Shipping Dimensions (L×W×H)	298 x 218 x 99 mm	
Shipping Weights	2.48 kg	2.50 kg
Master Pack Dimension (L×W×H)	539 x 250 x 323 mm	
Master Pack Quantity		
Master Pack Weight	12.4 kg	12.52 kg
Pallet Quantity	150 pcs	
Country of Origin	China	
Warranty	5 Years	
Additional Information	<b>550W</b> <a href="http://www.fsplifestyle.com/en/product/HyperM85plus550W.html">http://www.fsplifestyle.com/en/product/HyperM85plus550W.html</a>	
	<b>650W</b> <a href="http://www.fsplifestyle.com/en/product/HyperM85plus650W.html">http://www.fsplifestyle.com/en/product/HyperM85plus650W.html</a>	



## Connectors

	550W	650W
 <p>20+4 PIN</p>	1	1
 <p>4+4 PIN</p>	1	1
 <p>6+2 PIN</p>	4	4
 <p>SATA</p>	8	8
 <p>MOLEX</p>	3	3
 <p>FLOPPY</p>	1	1