## Introduction

HEXA 85+ Series, FSP brand new 80 PLUS® Bronze ATX PSU, featured with DC to DC module and +12V single-rail design, taken with full Japanese capacitors and quiet 120mm silent fan , built in with complete protections: OCP, OVP, SCP, OPP, OTP and approved by global safety regulation.
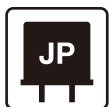
HEXA 85+ Series comes out with four models – 350W, 450W,550W and 650W to satisfy various needs.

Features
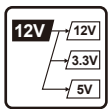
DC to DC Module Design
Providing high efficient, stable power

100% Japan-made E-cap
Reliable power and prolonged life span

· Complies with ATX12 v2.4 & EPS12 v2.92
· High efficiency ≧ 85%
· Active PFC ≧ 90%
· Comply with 80 PLUS® Bronze certification
· +12V single-rail design
· Full Japanese capacitors
· Quiet 120mm silent fan
· Complete protections: OCP, OVP, SCP, OPP, OTP
· Global safety approved

Product Overview

DC – 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.
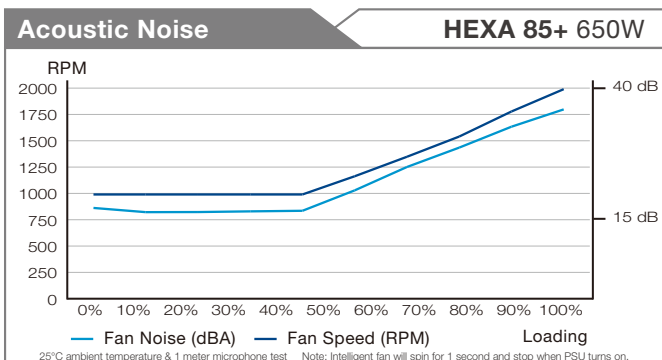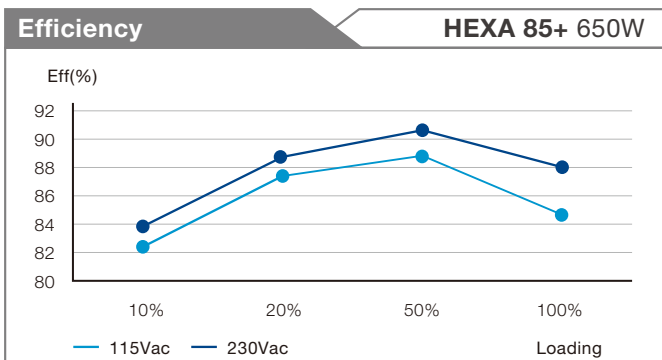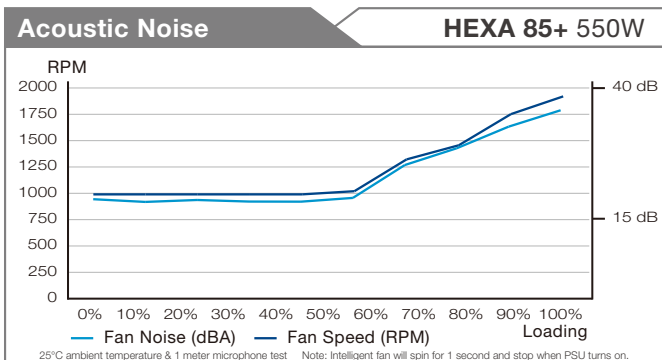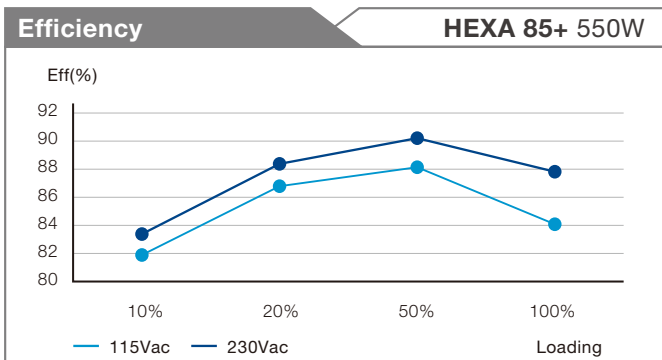

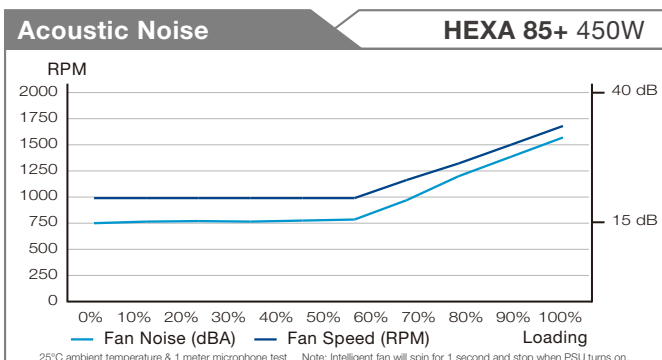### High Efficiency-80 PLUS® Bronze Certified
Its efficiency, higher than 85% at regular loading, provides better power performance.

Performance

Efficiency — HEXA 85+ 350W

Eff(%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — HEXA 85+ 350W

RPM / dB vs Loading (0%–100%)
— Fan Noise (dBA) — Fan Speed (RPM)
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — HEXA 85+ 450W

Eff(%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — HEXA 85+ 450W

RPM / dB vs Loading (0%–100%)
— Fan Noise (dBA) — Fan Speed (RPM)
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — HEXA 85+ 550W

Eff(%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — HEXA 85+ 550W

RPM / dB vs Loading (0%–100%)
— Fan Noise (dBA) — Fan Speed (RPM)
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

Efficiency — HEXA 85+ 650W

Eff(%) vs Loading (10%, 20%, 50%, 100%)
— 115Vac — 230Vac

Acoustic Noise — HEXA 85+ 650W

RPM / dB vs Loading (0%–100%)
— Fan Noise (dBA) — Fan Speed (RPM)
25°C ambient temperature & 1 meter microphone test   Note: Intelligent fan will spin for 1 second and stop when PSU turns on.

HEXA 85⁺ Series

FSP

350W / 450W / 550W / 650W

Rating

350W

AC Input	100-240Vac~ 6-3A 50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	20A	15A	29.17A	0.3A	2.5A
Max Combined Power	100W		350W	3.6W	12.5W
Total Power	350W				

450W

AC Input	100-240Vac~ 7-3.5A 50-60Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
Max Output Current	16A	16A	37.5A	0.3A	2.5A
Max Combined Power	100W		450W	3.6W	12.5W
Total Power	450W				

550W

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

HEXA 85⁺ Series

350W / 450W / 550W / 650W
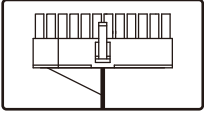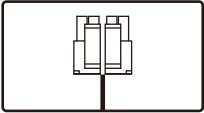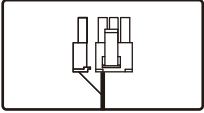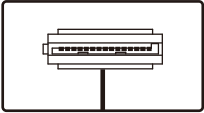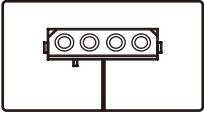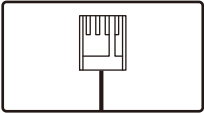
Specifications

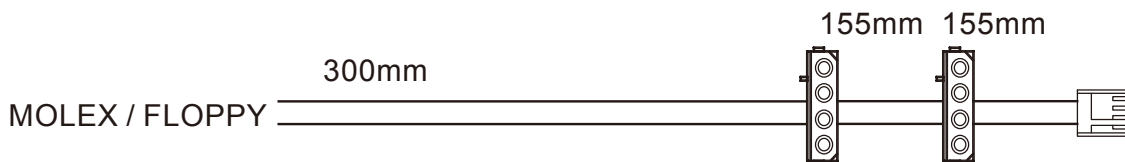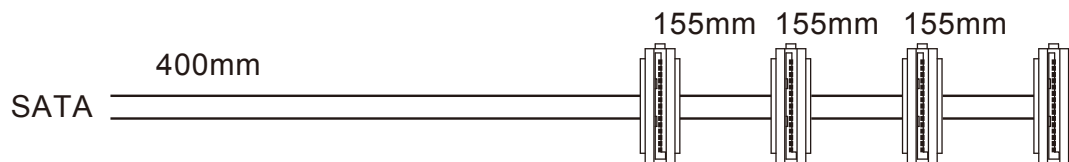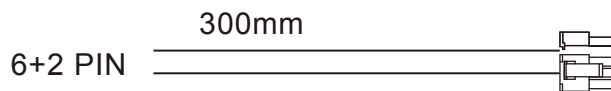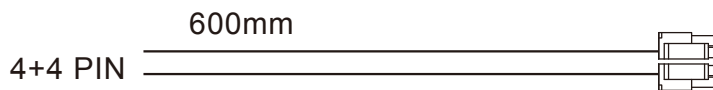|		
Model	HA350	HA450
Type	ATX PSU	ATX PSU
PFC	Active PFC	Active PFC
Input Voltage	100-240 Vac	100-240 Vac
Input Current	6-3A	7-3.5A
Input Frequency	60-50 Hz	60-50 Hz
Output Capacity	350W	450W
Max. Output Power	350W	450W
Fan Type	Sleeve Fan, 120mm	Sleeve Fan, 120mm
Efficiency	85%	85%
MTBF	100,000 Hrs.	100,000 Hrs.
Protection	OCP, OVP, SCP, OPP, OTP	OCP, OVP, SCP, OPP, OTP
Weight	1.25 kg	1.409 kg
Dimension(L×W×H)	150 x 140 x 86 cm	150 x 140 x 86 cm

Specifications

Model	HA550	HA650
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	1.55 kg	1.591 kg
Dimension(L×W×H)	150 x 140 x 86 cm	150 x 140 x 86 cm

HEXA 85+ Series

350W / 450W / 550W / 650W

Connectors

	350W	450W	550W	650W
20+4 PIN	1	1	1	1
4+4 PIN	1	1	1	1
6+2 PIN	1	2	4	4
SATA	4	8	8	8
MOLEX	2	2	2	2
FLOPPY	1	1	1	1

Cable Length

350W
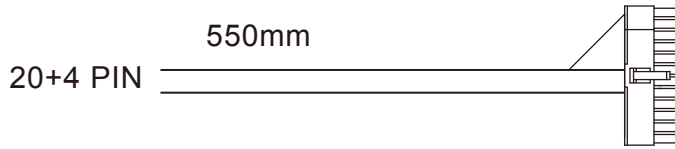
20+4 PIN — 550mm

4+4 PIN — 600mm

6+2 PIN — 300mm

SATA — 400mm — 155mm — 155mm — 155mm

MOLEX / FLOPPY — 300mm — 155mm — 155mm

Cable Length

450W

20+4 PIN — 550mm

4+4 PIN — 600mm

6+2 PIN — 500mm / 150mm

SATA — 500mm / 50mm / 50mm / 50mm

SATA — 500mm / 155mm / 155mm / 155mm

MOLEX / FLOPPY — 500mm / 155mm / 155mm

Cable Length

550W / 650W

20+4 PIN — 550mm

4+4 PIN — 600mm

6+2 PIN — 500mm / 150mm ×2

SATA — 500mm / 50mm / 50mm / 50mm

SATA — 500mm / 155mm / 155mm / 155mm

MOLEX / FLOPPY — 500mm / 155mm / 155mm
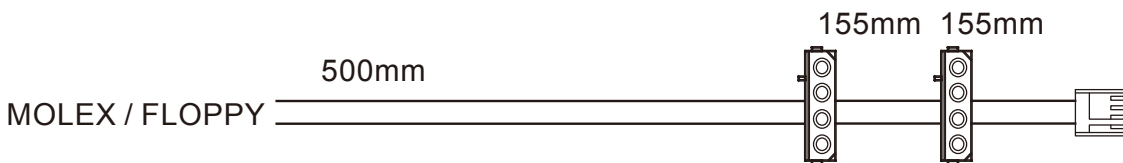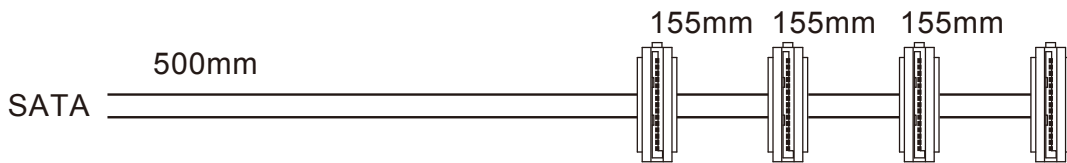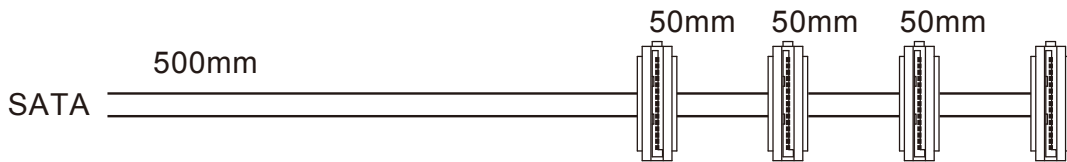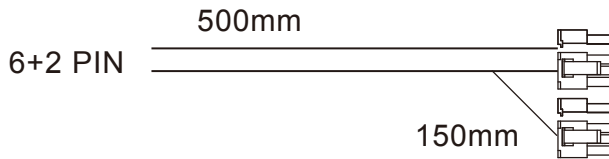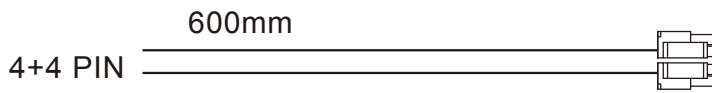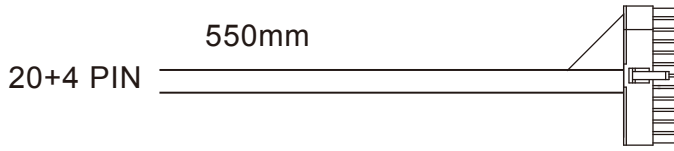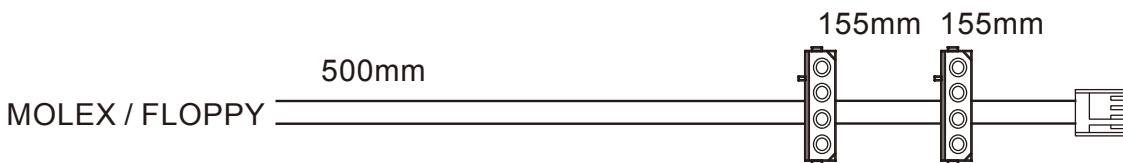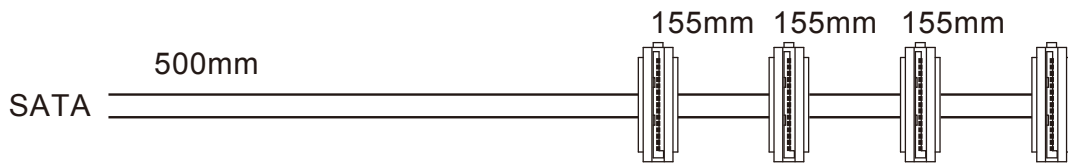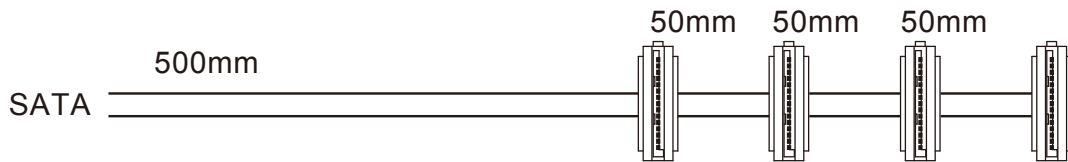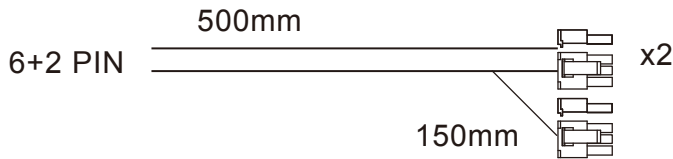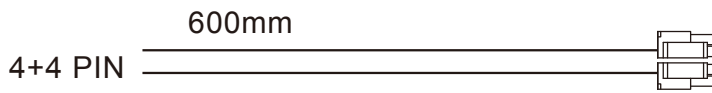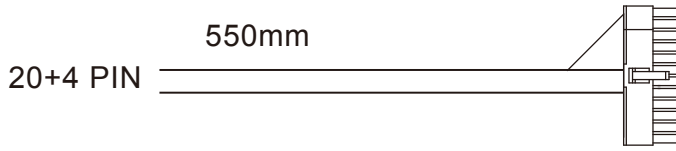
Package Information

Model	HA350	HA450	HA550	HA650
EAN Code	4713224520365	4713224520372	4713224520389	4713224520396
UPC Code	845685008909	845685008916	845685008923	845685008930
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	**650W** http://www.fsplifestyle.com/PROP172002168 **550W** http://www.fsplifestyle.com/PROP172002167 **450W** http://www.fsplifestyle.com/PROP172002166 **350W** http://www.fsplifestyle.com/PROP172002165			