SILENT PRO GOLD SERIES

600W / 700W / 800W / 900W / 1000W / 1200W

80 PLUS® GOLD

NVIDIA SLI READY

5 YEAR WARRANTY

Introduction

Cooler Master offers another extensive range of power supplies that allows for a perfect fit for end users. Silent Pro Gold Series – a brand new lineup of power supplies that meet the 80Plus Gold Standard with over 90% power efficiency.

Using patented technologies such as Heat Transfer Technology™ (HTT), Hyper Path™ and Hybrid Transformers™, the Silent Pro Gold sets a new standard in PSU excellence.

Product Features

- Patent Technologies:
  - *Heat Transfer Technology* ™ :
    A unique “L-shaped” heat-sink to remove heat from the PSU
  - *Hybrid Transformer* ™ :
    Unique design that combines heat-sink with transformer
  - *Hyper Path* ™ :
    Places IC close to transformers leading to huge efficiency ratings
- Flat modularized cables provide easy cable management leads to better airflow
- Compliance with the latest Intel standard ATX 12V V2.3
- Operation with intelligent fan speed control
- High reliability (MTBF> 100,000 hours)
- Double Layer EMI Filter retrains noise and to avoid affect to users
- Integrating Active PFC with PWN combo controller while increase efficiency
- Multiple protection design (OVP/UVP/OPP/OTP/SCP/OCP)
- Japanese-made capacitors
- Single +12V rail up to 98A
- Five-year warranty

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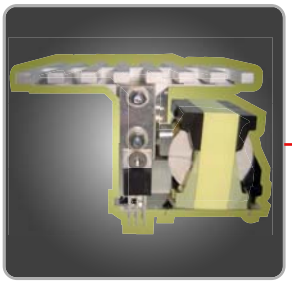
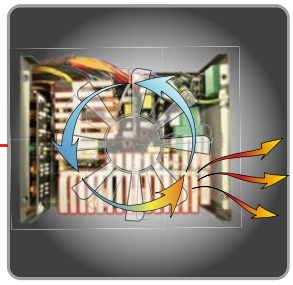
Patent Techologies



Hybrid Transformer ™:

Special design transformer to improve thermal and efficiency

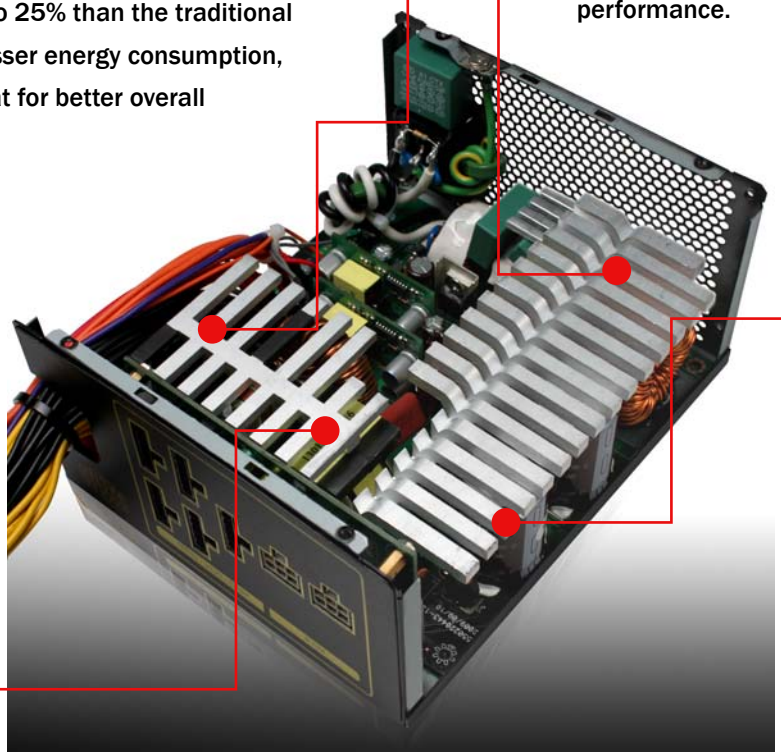
Patent design transformer mount with heat sink, the size was reduced by up to 25% than the traditional transformer providing lesser energy consumption, while conducting the heat for better overall efficiency.

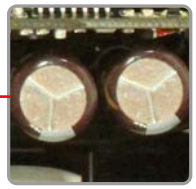


HTT ™ - Heat Transfer technology:

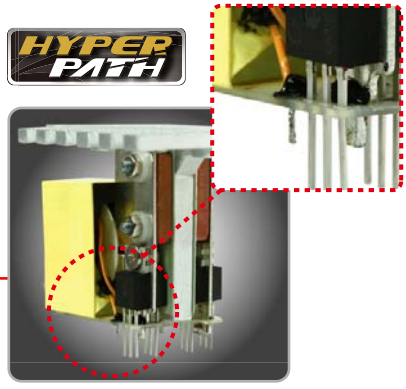
Patent design "L" shaped heat sink layout

This technology helps to guide the air flow along the heat sink to improve the air circulation for maximum performance.





Japanese-made capacitors



Hyper Path ™:

Patent design hyper link between IC and the relative components

Patent energy conversion design path provides super efficient connection from the transformer to components. The signal can be transfer directly without any energy loss.

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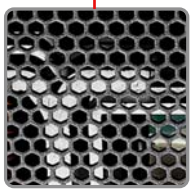
Product Overview

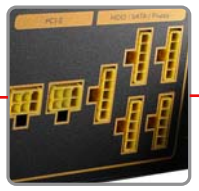
■ Golden fan cover

■ 120 / 135 mm fan

■ Logo decor sticker



■ Honeycomb vent



■ Modularized cable design

■ Flat modular connectors

■ Quality spray finish

■ Cable protector

*Available only on (600W/700W/800W/900W)

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SILENT PRO GOLD SERIES

600W / 700W / 800W / 900W / 1000W / 1200W

Specifications

Model	RS-600-80GA-D3	RS-700-80GA-D3	RS-800-80GA-D3
Type	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92
PFC	Active PFC (0.99)	Active PFC (0.99)	Active PFC (0.99)
Input Voltage	90-264Vac (Auto Range)	90-264Vac (Auto Range)	90-264Vac (Auto Range)
Input Current	7 - 3.5A	8 - 4A	9 - 4.5A
Input Frequency	47-63Hz	47-63Hz	47-63Hz
Output Capacity	600W	700W	800W
Max. Output Power	720W	840W	960W
Fan Type	120mm Ultra Silent Fan	120mm Ultra Silent Fan	120mm Ultra Silent Fan
Power Good Signal	100~500ms	100~500ms	100~500ms
Hold up Time	>17ms	>17ms	>17ms
Efficiency	90% typical	90% typical	90% typical
MTBF	>100,000 hours	>100,000 hours	>100,000 hours
Protection	OVP / UVP / OCP / OPP / OTP / SCP	OVP / UVP / OCP / OPP / OTP / SCP	OVP / UVP / OCP / OPP / OTP / SCP
Dimension	150 X 160 X 86 mm 5.9 x 6.29 x 3.4 inch	150 X 160 X 86 mm 5.9 x 6.29 x 3.4 inch	150 X 160 X 86 mm 5.9 x 6.29 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)	0~40 °C (Nominal Input Voltage)	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC
Certification	SLI / CrossFire / 80 Plus Gold	SLI / CrossFire / 80 Plus Gold	SLI / CrossFire / 80 Plus Gold
Connectors	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 1 PCI-e 6+2 pins x 2 / PCI-e 6 pins x 2 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 1 PCI-e 6+2 pins x 3 / PCI-e 6 pins x 3 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 1 PCI-e 6+2 pins x 3 / PCI-e 6 pins x 3 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1

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SILENT PRO GOLD SERIES

600W / 700W / 800W / 900W / 1000W / 1200W

Specifications

Model	RS-900-80GA-D3	RS-A00-80GA-D3	RS-C00-80GA-D3
Type	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92	Intel Form Factor ATX 12V V2.3 SSI Form Factor EPS 12V V2.92
PFC	Active PFC (0.99)	Active PFC (0.99)	Active PFC (0.99)
Input Voltage	90-264Vac (Auto Range)	90-264Vac (Auto Range)	90-264Vac (Auto Range)
Input Current	10 - 5A	11 - 5.5 A	12.5 - 6A
Input Frequency	47-63Hz	47-63Hz	47-63Hz
Output Capacity	900W	1000W	1200W
Max. Output Power	1080W	1200W	1440W
Fan Type	120mm Ultra Silent Fan	135mm Ultra Silent Fan	135mm Ultra Silent Fan
Power Good Signal	100~500ms	100~500ms	100~500ms
Hold up Time	>17ms	>17ms	>17ms
Efficiency	90% typical	90% typical	90% typical
MTBF	>100,000 hours	>100,000 hours	>100,000 hours
Protection	OVP / UVP / OCP / OPP / OTP / SCP	OVP / UVP / OCP / OPP / OTP / SCP	OVP / UVP / OCP / OPP / OTP / SCP
Dimension	150 X 160 X 86 mm 5.9 x 6.29 x 3.4 inch	150 X 180 X 86 mm 5.9 x 7.09 x 3.4 inch	150 X 180 X 86 mm 5.9 x 7.09 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)	0~40 °C (Nominal Input Voltage)	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC
Certification	SLI / CrossFire / 80 Plus Gold	SLI / CrossFire / 80 Plus Gold	SLI / CrossFire / 80 Plus Gold
Connectors	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 1 PCI-e 6+2 pins x 3 / PCI-e 6 pins x 3 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 2 PCI-e 6+2 pins x 4 / PCI-e 6 pins x 4 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 2 PCI-e 6+2 pins x 4 / PCI-e 6 pins x 4 (One PCI-e 6+2 pins connector extends to one PCI-e 6 pins connector) SATA x 9 / Peripherial 4 pins x 4 Floppy 4 pins x 1

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600W

AC Input	100-240V~ 7-3.5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	48A	0.3A	3.5A
Total Power	150W		576W	3.6W	17.5W
	600W				

700W

AC Input	100-240V~ 8-4A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	56A	0.3A	3.5A
Total Power	150W		672W	3.6W	17.5W
	700W				

800W

AC Input	100-240V~ 9-4.5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	65A	0.3A	3.5A
Total Power	150W		780W	3.6W	17.5W
	800W				

900W

AC Input	100-240V~ 10-5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	73A	0.3A	3.5A
Total Power	150W		876W	3.6W	17.5W
	900W				

1000W

AC Input	100-240V~ 11-5.5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	82A	0.3A	3.5A
Total Power	150W		984W	3.6W	17.5W
	1000W				

1200W

AC Input	100-240V~ 12.5-6A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	22A	25A	98A	0.3A	3.5A
Total Power	150W		1176W	3.6W	17.5W
	1200W				

Shipping Information

Model Name	EAN Code	UPC Code
RS-600-80GA-D3	4719512025406	884102008566
RS-700-80GA-D3	4719512025505	884102008573
RS-800-80GA-D3	4719512025307	884102008559
RS-900-80GA-D3	4719512025208	884102008542
RS-A00-80GA-D3	4719512025109	884102008535
RS-C00-80GA-D3	4719512025000	884102008528

Unit / Carton	4 Pcs / Carton	
Unit / Pallet	16 Cartons / Pallet	
Retail Box Size	205 x 380 x 132 mm 8.07 x 14.96 x 5.20 inch	
Retail Box Weight	600W	3.09 kg / 6.81 lbs
	700W	3.09 kg / 6.81 lbs
	800W	3.27 kg / 7.21 lbs
	900W	3.27 kg / 7.21 lbs
	1000W	3.96 kg / 8.73 lbs
	1200W	3.96 kg / 8.73 lbs

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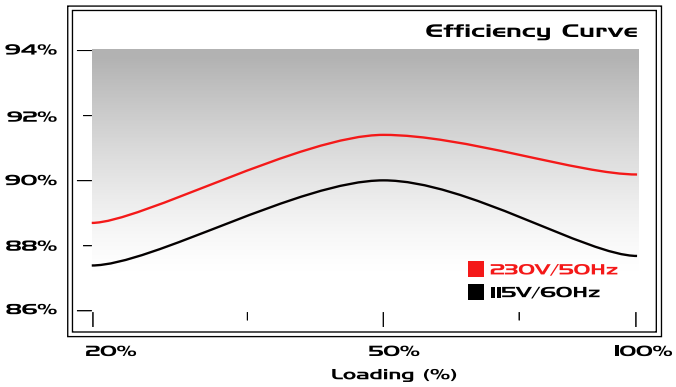
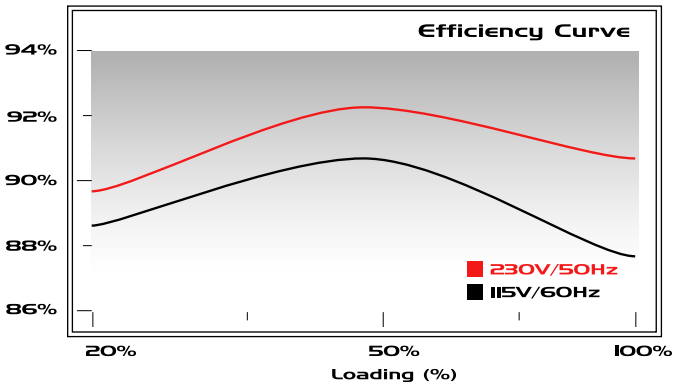
Efficiency Curves

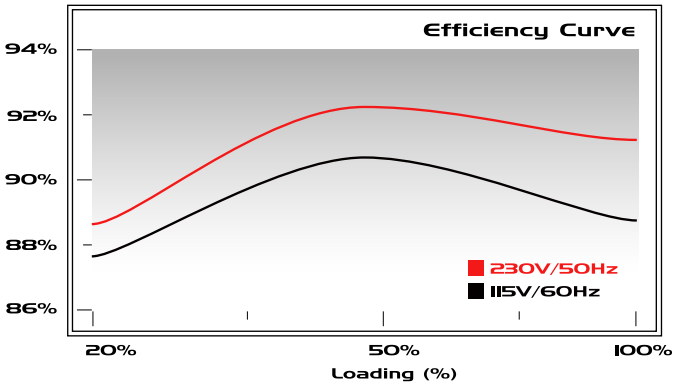
600W



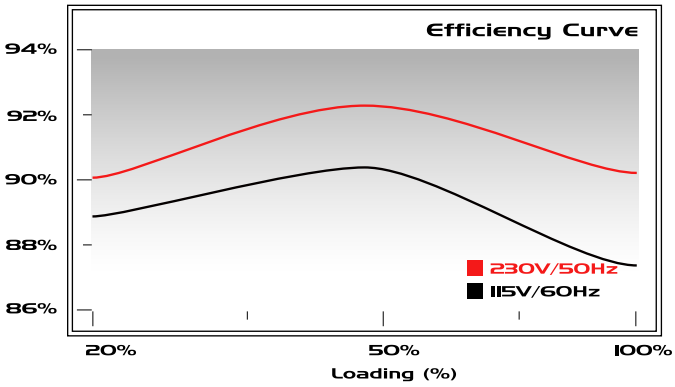
900W



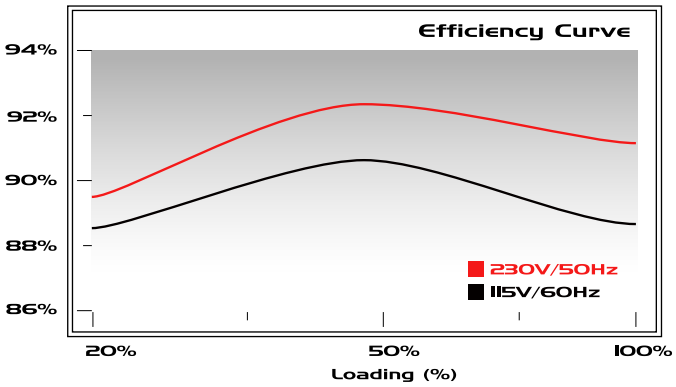
700W



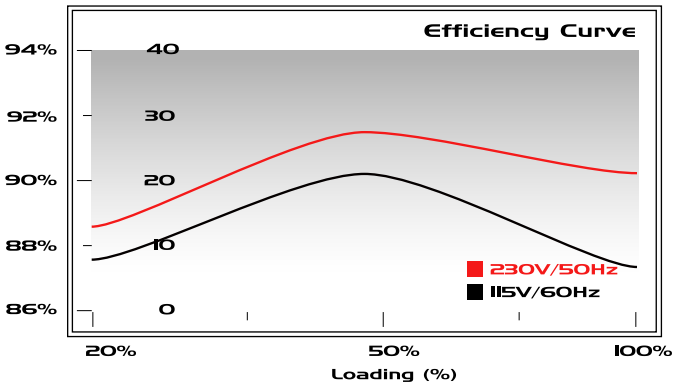
1000W



800W



1200W



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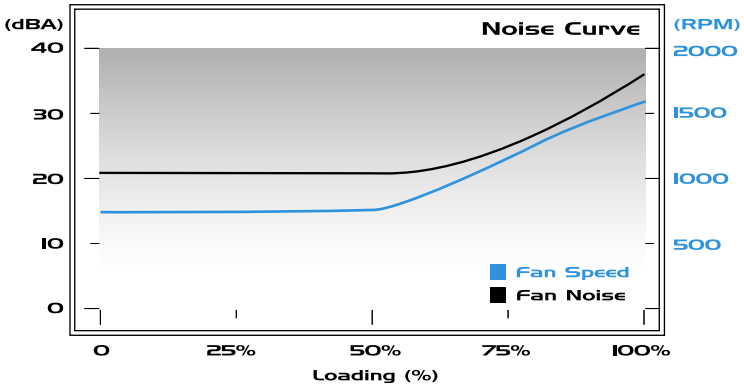
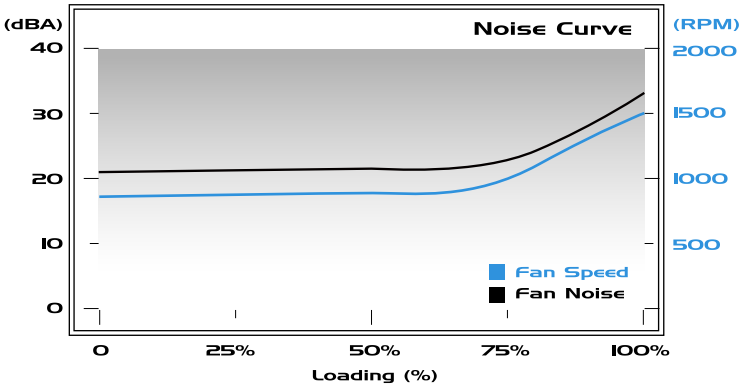
Speed & Noise Curves

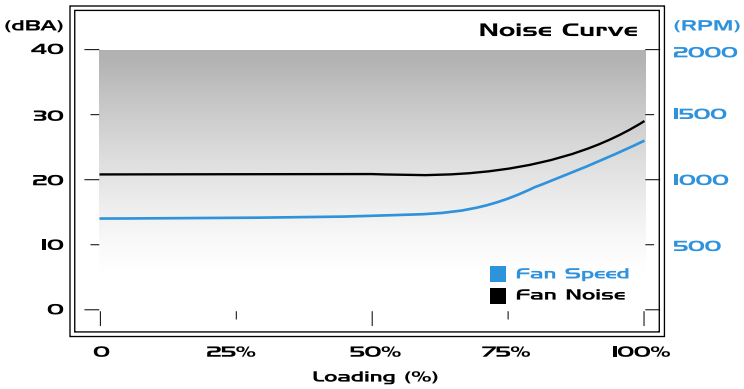
600W



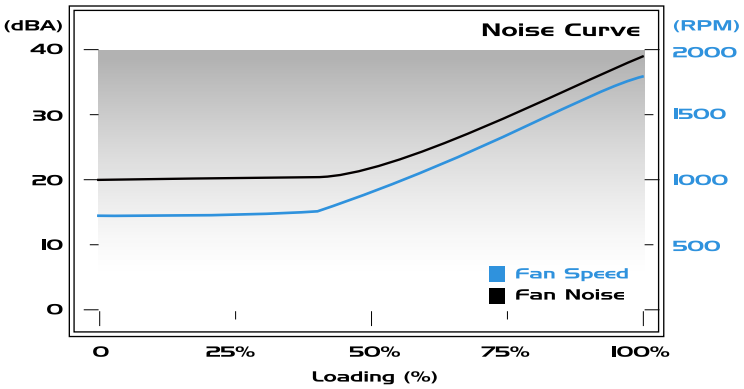
900W



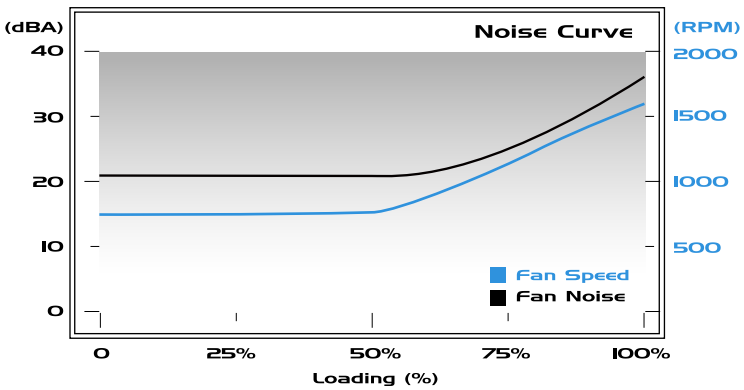
700W



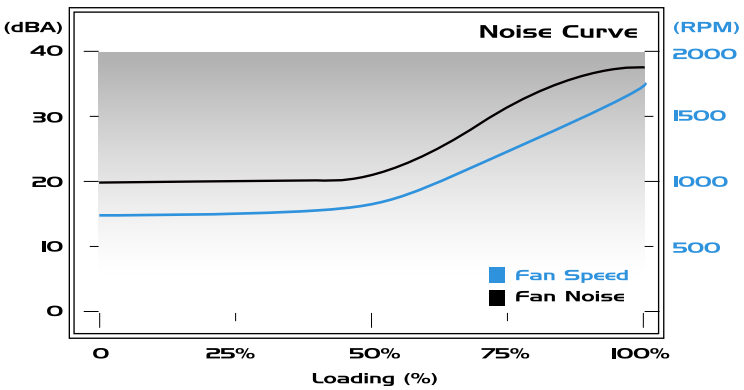
1000W



800W



1200W



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Connectors

	600W	700W	800W	900W	1000W	1200W
M/B 20 + 4 pin	1	1	1	1	1	1
CPU 4 + 4 pin	1	1	1	1	2	2
PCI-e 6 + 2 pin	2	3	3	3	4	4
PCI-e 6 pin	2	3	3	3	4	4
SATA	9	9	9	9	9	9
Peripherial	4	4	4	4	4	4
Floppy	1	1	1	1	1	1

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Cable Length

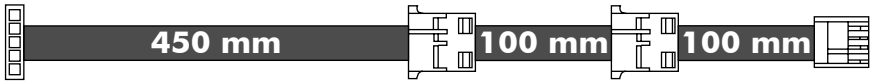
■ M/B 20+4 pin connector

■ CPU 4+4 pin connector x 1 (1000W and 1200W x 2)

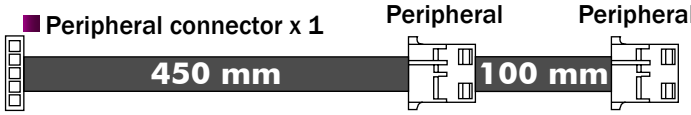
■ PCI-e connector x 1 (* Does not include 600W)

■ PCI-e connector x 2

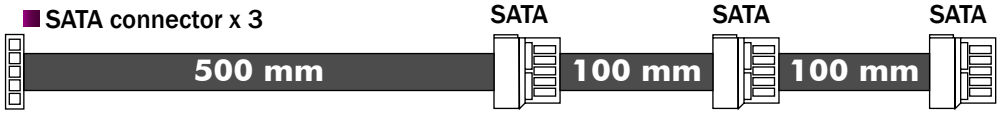
■ Peripheral connector x 1



■ Peripheral connector x 1



■ SATA connector x 3



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