



# GX SERIES

400W/450W/550W/650W/750W



## Introduction

Cooler Master is electrifying gamers PCs with GX 400W all the way up to GX 750W power supplies, specifically targeted at systems in the upper-mid to high-end range, yet reasonably priced, providing users with unsurpassed cost per performance. The Cooler Master GX Series of power supplies feature a single highly robust 12 V rail, proficiently delivering power to the most demanding components including the processor, drives, cooling fans and even the most intense dual graphic cards. Including a double-layer EMI Filter, 120mm fan with intelligent speed control and an active PFC/PWM combo controller for increased efficiency, the GX Series will keep the power in your hands.

## Features

- Compliance with the latest Intel standard ATX 12V V 2.31.
- Single +12V rail provides ample power and strong resistance to any overloading.
- High efficiency design that meets 80 Plus Bronze requirements (85% typical).
- Multiple protection designs (OVP / UVP / OPP / OTP / SCP).
- High reliability (MTBF>100,000 hours).
- Double Layer EMI filter reduces Electromagnetic interference.
- Huge bulk capacitor for hold-up times of >17ms when fully loaded.
- Efficient transformer that reduces 5Vsb power loss when the system is in an off/sleep state.
- EuP ready: To save most power consumption (below 1W in standby mode).
- Five-year warranty.



# GX SERIES

400W/450W/550W/650W/750W

Internal Design

750W

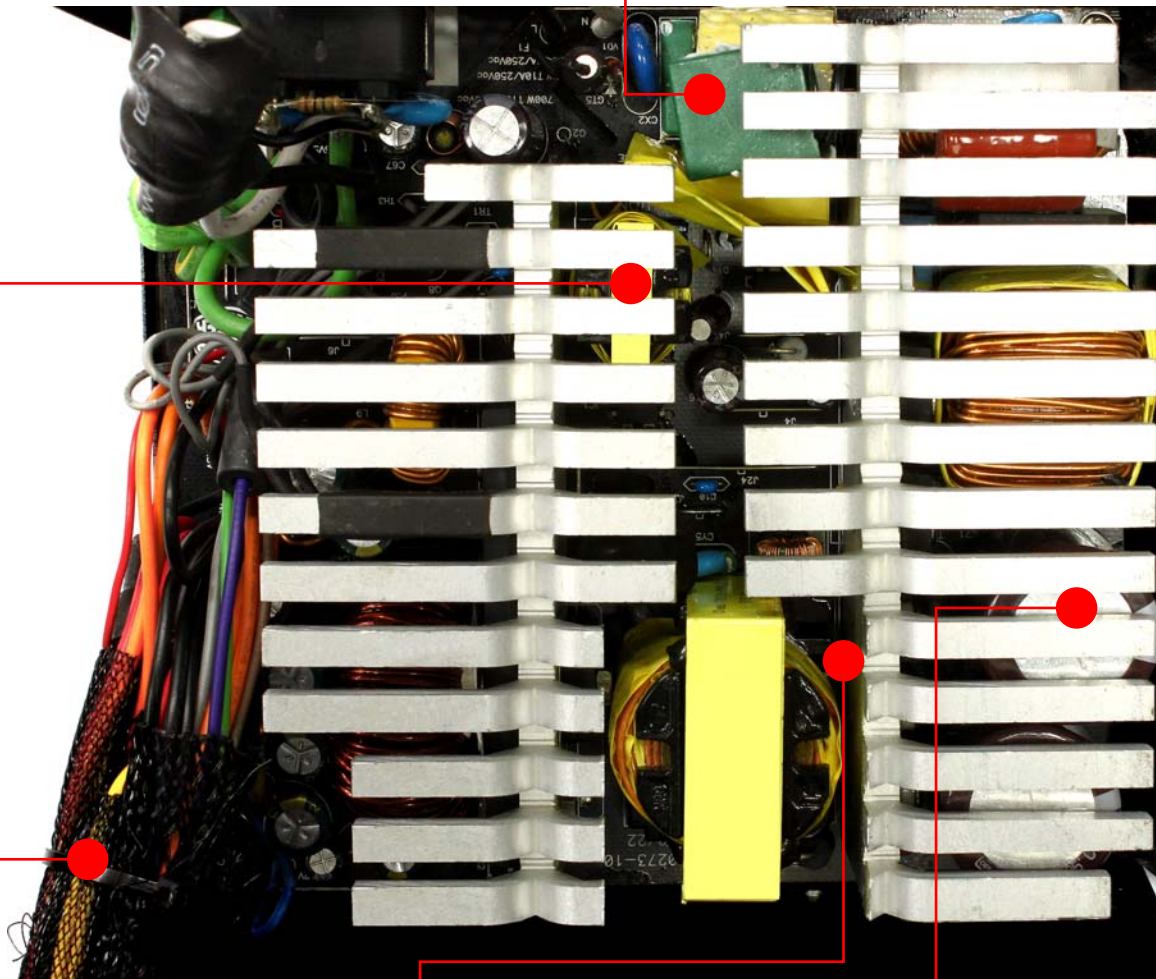
650W

## Efficient transformer

Adept at holding power with minimal 5V standby voltage loss so the system returns prompt and ready when powered on or resuming after a sleep state.

## Double layer EMI filter

Extra protection from electromagnetic interference limits noise and static interference which provides greater protection for you and your connections.



## Single rail +12V

Tackling challenges from the most power-intensive peripherals head on, this solitary 12 V power rail provides ample power and strong resistance to any overloading.

## Dual forward design

Switching circuitry design offers up to 85% high efficiency.

## Huge capacitor

Produces hold-up times of >17ms when fully loaded.



# GX SERIES

400W/450W/550W/650W/750W

## Specifications

## 750W







Wattage	750W
Model	RS-750-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	12A @ 115Vac , 6A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	750W
Max. Output Power	900W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	85% typical
MTBF	>100,000 hours
Protection	OVP / UVP / OPP / OTP / SCP
Dimension	150 x 140 x 86mm 5.9 x 5.5 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC

AC Input	100-240V~ 12-6A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	25A	25A	60A	0.5A	2.5A
Total Power	150W		720W	6W	12.5W
	750W				

## Shipping Information

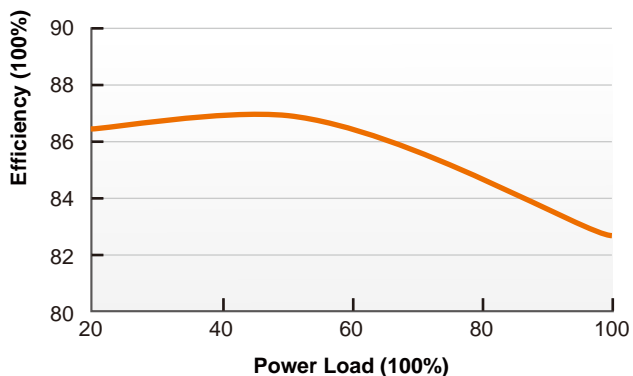
Model	RS-750-ACAA	Unit / Carton	5 pcs / Carton
EAN	4719512018101	Unit / Pallet	30 Cartons / Pallet
UPC	884102007590	Retail Box Size	227 x 223 x 96mm
Carton Size	505 x 240 x 250mm	Retail Box Weight	2.7kg

## Connectors

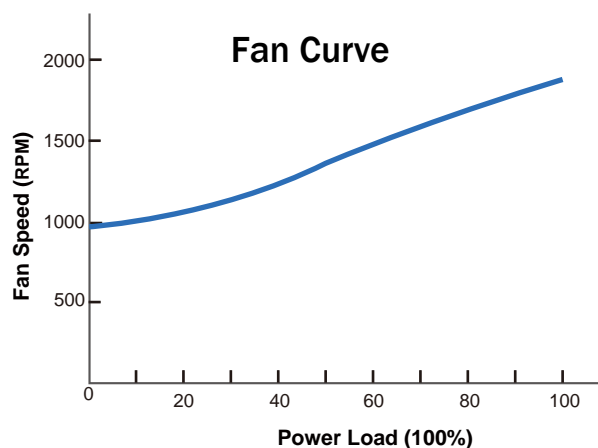
					
MB 20+4 Pin	CPU 4+4 Pin	PCI-e 6+2 Pin	Peripheral 4 Pin	SATA	Floppy 4 Pin
1	1	4	3	9	1

## Curves

### Efficiency Curve



### Fan Curve





# GX SERIES

400W/450W/550W/650W/750W

## Specifications

### 650W

Wattage	650W
Model	RS-650-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	10A @ 115Vac , 5A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	650W
Max. Output Power	780W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	85% typical
MTBF	>100,000 hours
Protection	OVP / UVP / OPP / OTP / SCP
Dimension	150 x 140 x 86mm 5.9 x 5.5 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC

AC Input	100-240V~ 10-5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	25A	25A	52A	0.5A	2.5A
Total Power	150W		624W	6W	12.5W
	650W				

## Shipping Information

Model	RS-650-ACAA	Unit / Carton	5 pcs / Carton
EAN	4719512018118	Unit / Pallet	30 Cartons / Pallet
UPC	884102007606	Retail Box Size	227 x 223 x 96mm
Carton Size	505 x 240 x 250mm	Retail Box Weight	2.5kg

## Connectors



MB 20+4 Pin

1



CPU 4+4 Pin

1



PCI-e 6+2 Pin

2



Peripheral 4 Pin

3



SATA

6

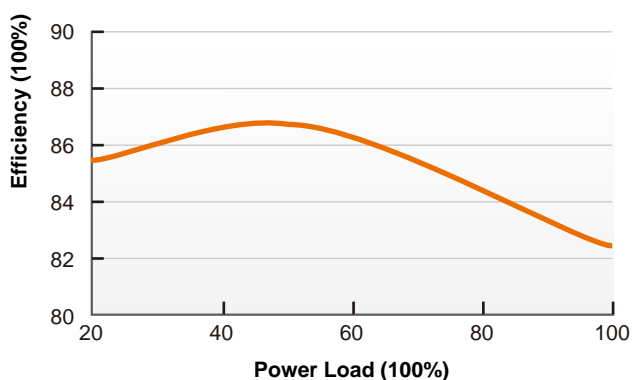


Floppy 4 Pin

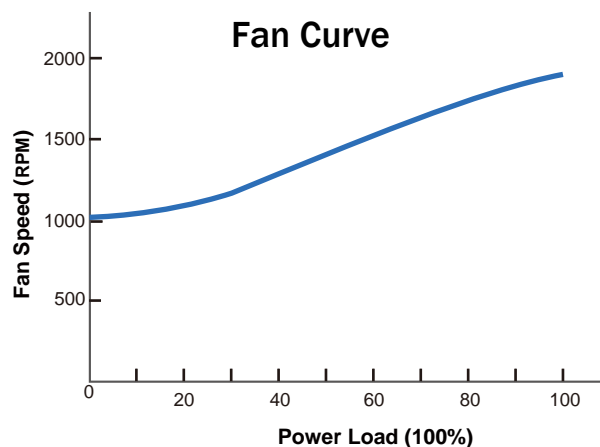
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## Curves

### Efficiency Curve



### Fan Curve





# GX SERIES

400W/450W/550W/650W/750W

Internal Design

550W

450W

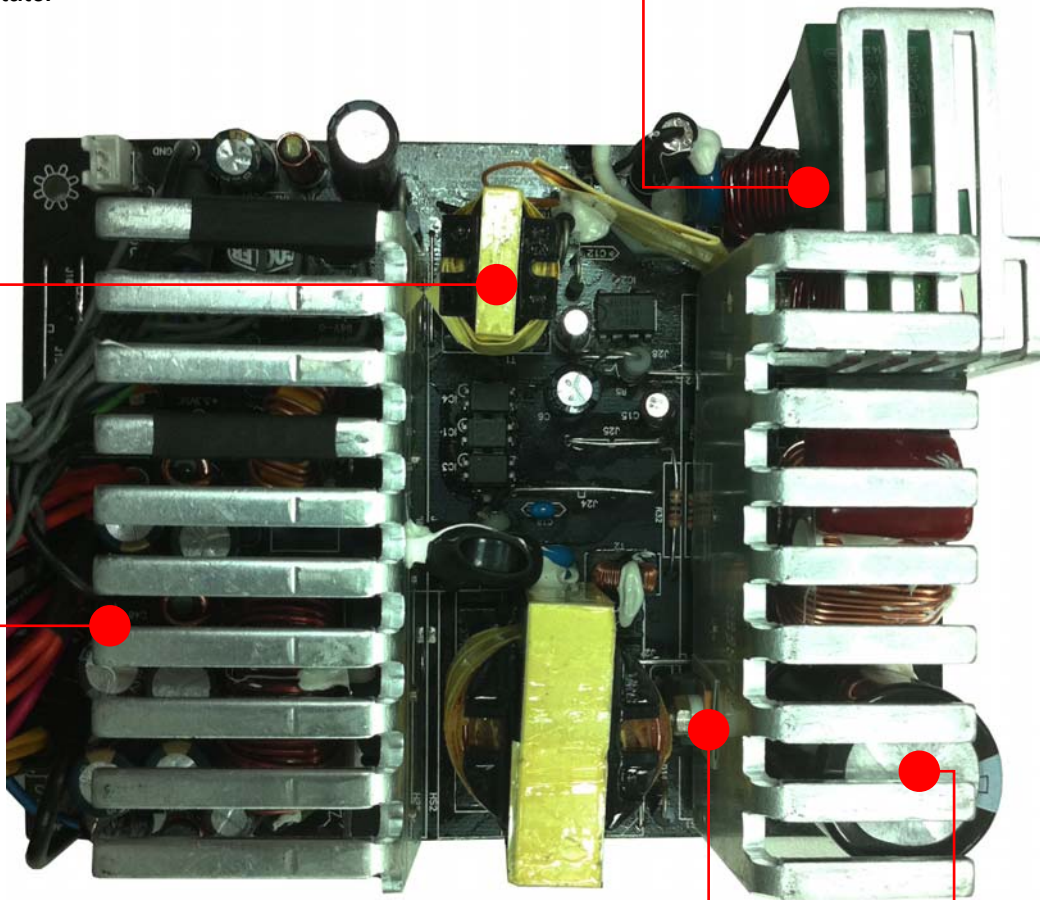
400W

## Efficient transformer

Adept at holding power with minimal 5V standby voltage loss so the system returns prompt and ready when powered on or resuming after a sleep state.

## Double layer EMI filter

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## Single rail +12V

Tackling challenges from the most power-intensive peripherals head on, this solitary 12 V power rail provides ample power and strong resistance to any overloading.

## Dual forward design

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## Huge capacitor

Produces hold-up times of >17ms when fully loaded.



# GX SERIES

## 400W/450W/550W/650W/750W

### Specifications

### 550W

Wattage	550W
Model	RS-550-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	9A @ 115Vac , 4.5A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	550W
Max. Output Power	660W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	85% typical
MTBF	>100,000 hours
Protection	OVP / UVP / OPP / OTP / SCP
Dimension	150 x 140 x 86mm 5.9 x 5.5 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC / CSA

AC Input	100-240V~ 9-4.5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	24A	24A	44A	0.3A	2.5A
Total Power	140W		528W	3.6W	12.5W
	550W				

### Shipping Information

Model	RS-550-ACAA	Unit / Carton	5 pcs / Carton
EAN	4719512018125	Unit / Pallet	30 Cartons / Pallet
UPC	884102007613	Retail Box Size	227 x 223 x 96mm
Carton Size	505 x 240 x 250mm	Retail Box Weight	2.1kg

### Connectors



MB 20+4 Pin

1



CPU 4+4 Pin

1



PCI-e 6+2 Pin

2



Peripheral 4 Pin

3



SATA

6

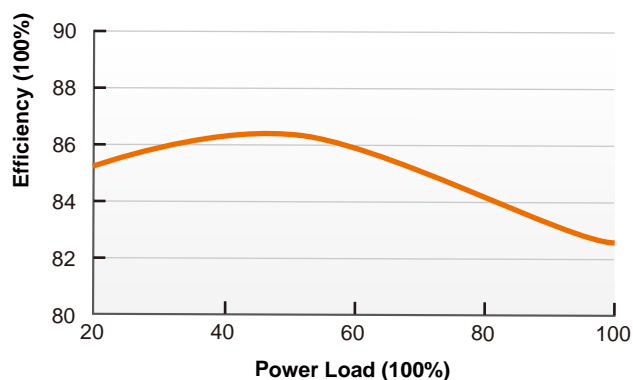


Floppy 4 Pin

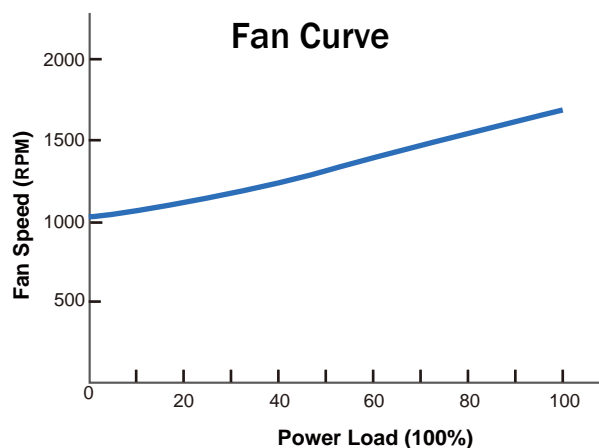
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### Curves

#### Efficiency Curve



#### Fan Curve





# GX SERIES

## 400W/450W/550W/650W/750W

### Specifications

### 450W

Wattage	450W
Model	RS-450-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	7A @ 115Vac , 3.5A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	450W
Max. Output Power	540W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	85% typical
MTBF	>100,000 hours
Protection	OVP / UVP / OPP / OTP / SCP
Dimension	150 x 140 x 86mm 5.9 x 5.5 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC / CSA

AC Input	100-240V~ 7-3.5A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	24A	15A	35A	0.3A	2.5A
Total Power	120W		420W	3.6W	12.5W
	450W				

### Shipping Information

Model	RS-450-ACAA	Unit / Carton	5 pcs / Carton
EAN	4719512030059	Unit / Pallet	30 Cartons / Pallet
UPC	884102010491	Retail Box Size	227 x 223 x 96mm
Carton Size	505 x 240 x 250mm	Retail Box Weight	2.1kg

### Connectors



MB 20+4 Pin

1



CPU 4+4 Pin

1



PCI-e 6 Pin

1



Peripheral 4 Pin

3



SATA

5

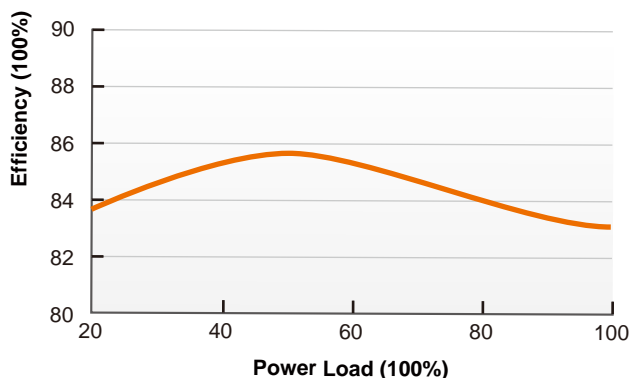


Floppy 4 Pin

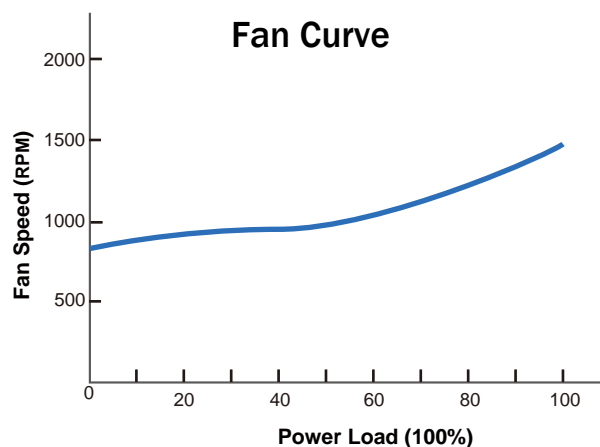
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### Curves

#### Efficiency Curve



#### Fan Curve





# GX SERIES

## 400W/450W/550W/650W/750W

### Specifications

### 400W

Wattage	400W
Model	RS-400-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	6A @ 115Vac , 3A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	400W
Max. Output Power	480W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	85% typical
MTBF	>100,000 hours
Protection	OVP / UVP / OPP / OTP / SCP
Dimension	150 x 140 x 86mm 5.9 x 5.5 x 3.4 inch
Operation Temp.	0~40 °C (Nominal Input Voltage)
Regulatory	CE / FCC / UL / TUV / C-Tick / GOST / BSMI / CCC / KCC / CSA

AC Input	100-240V~ 6-3A 60-50Hz				
DC Output	+3.3V	+5V	+12V	-12V	+5Vsb
	20A	15A	30A	0.3A	2.5A
Total Power	120W		360W	3.6W	12.5W
	400W				

### Shipping Information

Model	RS-400-ACAA	Unit / Carton	5 pcs / Carton
EAN	4719512030875	Unit / Pallet	30 Cartons / Pallet
UPC	884102011207	Retail Box Size	227 x 223 x 96mm
Carton Size	505 x 240 x 250mm	Retail Box Weight	2.1kg

### Connectors



MB 20+4 Pin

1



CPU 4+4 Pin

1



PCI-e 6 Pin

1



Peripheral 4 Pin

3



SATA

3

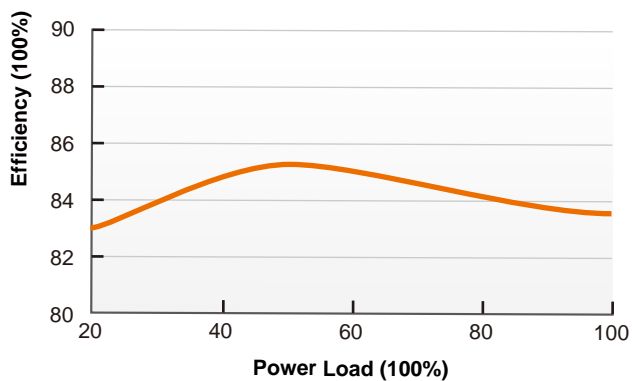


Floppy 4 Pin

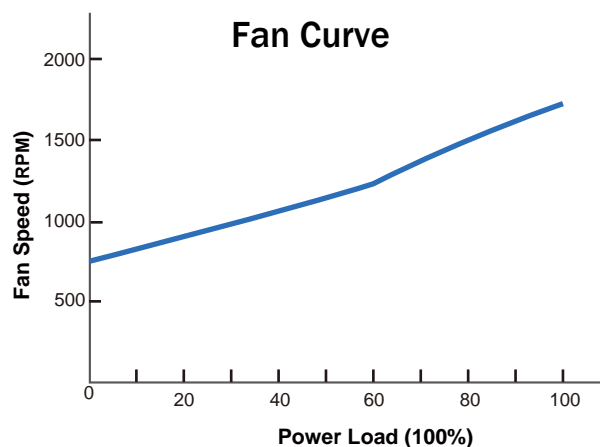
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### Curves

#### Efficiency Curve



#### Fan Curve





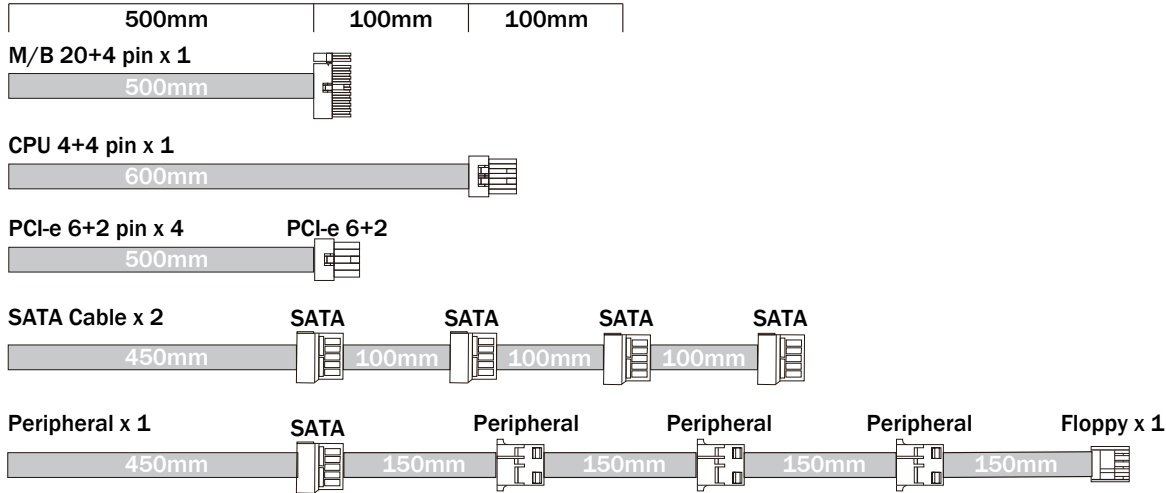


# GX SERIES

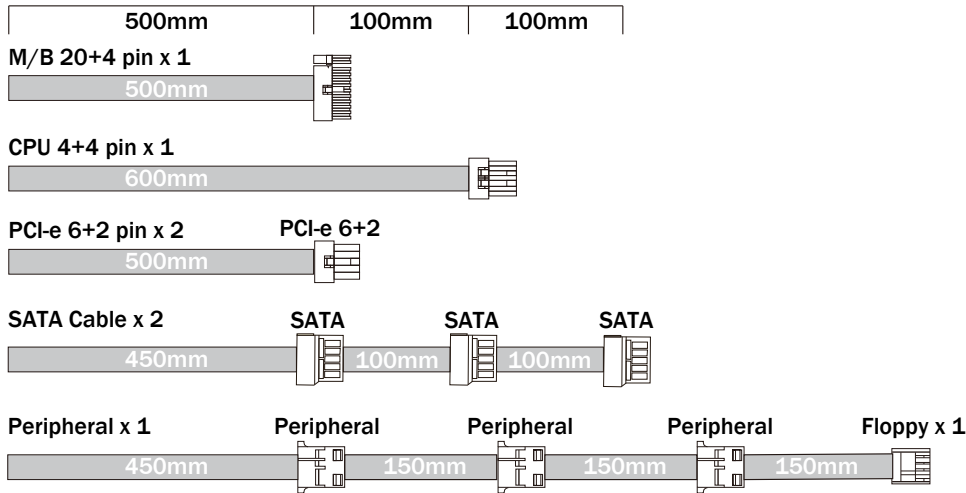
400W/450W/550W/650W/750W

## Connectors

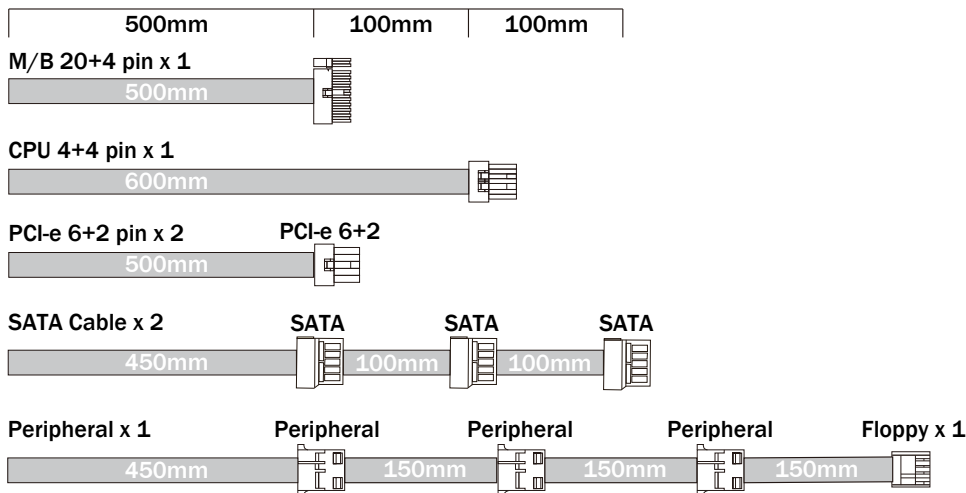
### 750W



### 650W



### 550W



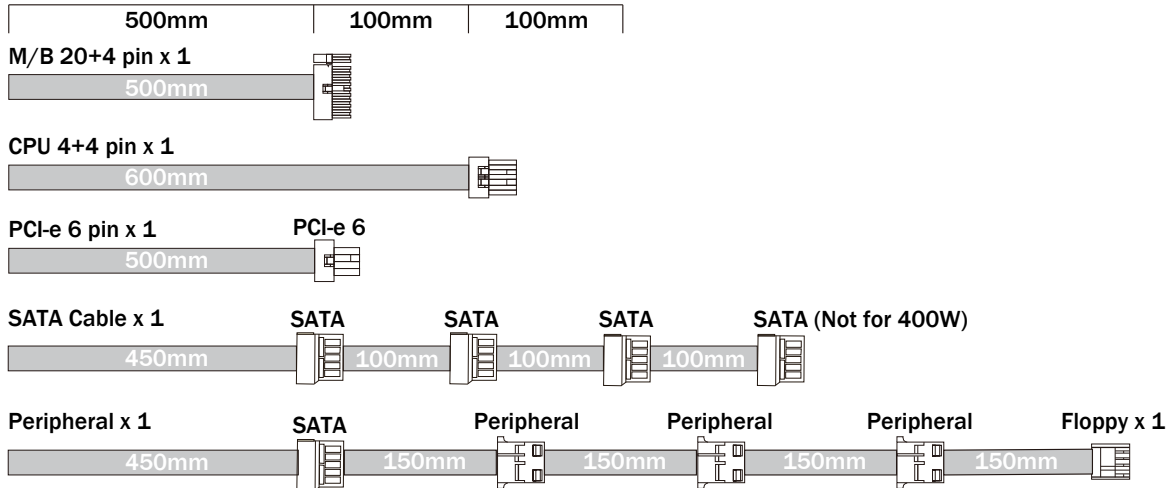


# GX SERIES

400W/450W/550W/650W/750W

## Connectors

### 450W



### 400W

