



# GX 450W



## Introduction

Cooler Master releases a whole new mid-range power supply, GX-450. This power supply is specifically targeted at systems in the upper-mid range, yet reasonably priced. 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, and cooling fans. Now including a double-layer EMI Filter, an intelligent 120 mm controllable fan and an active PFC/PWM combo controller for increased efficiency, the GX Series will keep the power in your hands.

## Introduction

- 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 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 0.5W in standby mode).
- Five-year warranty



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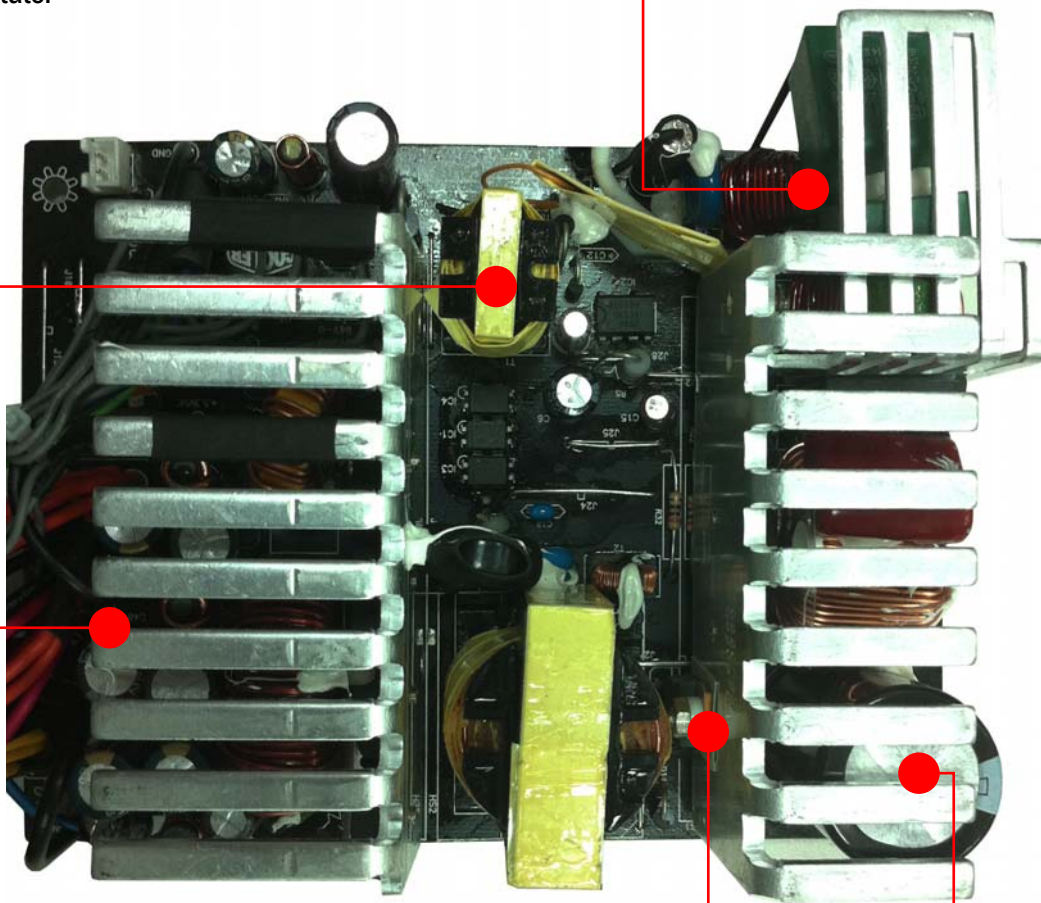
## Internal Design

### 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.



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## Specifications

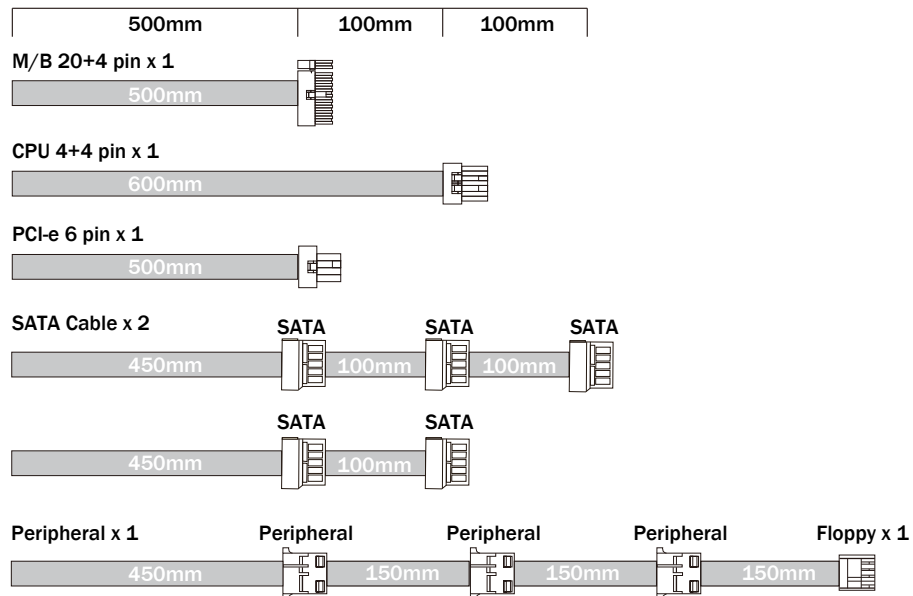
Wattage	450W
Model	RS-450-ACAA
Type	Intel Form Factor ATX 12V V2.31
PFC	Active PFC (>0.9)
Input Voltage	90-264Vac (Auto Range)
Input Current	7A @ 115Vac , 3.5A @ 230Vac
Input Frequency	47-63Hz
Output Capacity	450W
Max. Output Power	540W
Fan Type	120mm
Power Good Signal	100~500ms
Hold up Time	>17ms
Efficiency	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
Connectors	M/B 20 + 4 pins x 1 CPU 4 + 4 pins x 1 PCI-e 6 pins x 1 SATA x 5 Peripheral 4 pins x 3 Floppy 4 pins x 1

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				

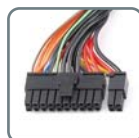
## Shipping Information

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	2.4kg

## Connectors



## 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

1