



# COUGAR POWER

400W/550W/700W



## TECHNICAL DETAILS & SPECIAL FEATURES

### COMPATIBLE WITH THE LATEST PC TECHNOLOGIES

Supports the newest specifications of ATX12V & EPS12V

Created for usage with current and next-generation multi-core CPU and GPU platforms

### EFFICIENCY (80-plus bronze certification):

Due to the extremely high efficiency of the COUGAR®-Series you can reduce your electricity costs in spite of high performance. In addition, less energy is converted into heat, which improves the cooling of the entire PC. Furthermore, the PSU fan can rotate more slowly, which reduces the noise-level of the whole system. In short, the PSU is efficient, cool and silent! You can find further information on the 80-plus certification on <http://www.80plus.org>.

### ENERGY STAR®:

The PSUs of the COUGAR®-Series support the newest Energy Star standard. Thus COUGAR®-PSUs can be used for Energy Star® compatible systems.

### ENVIRONMENT:

The PSUs of the COUGAR®-Series adhere to the current guidelines 2002/95/EC (RoHS and WEEE) of the European Union. They contain no environmental pollutants; thus we as manufacturers and you as a customer support environmental protection.

### INDEPENDENT CIRCUITS:

Each different output voltage of the COUGAR®-PSU has its own internal switching and is protected against overloading and underloading through multiple safeguards. Therefore, the output voltages are considerably more stable and subject to far smaller voltage noises, bringing them much closer to their ideal values.

### DYNAMIC LOAD DISTRIBUTION 12V:

All PSUs of the COUGAR®-Series have an automatic dynamic load distribution on the 12V line. If you are not using all output lines, the PSU automatically reroutes needed power from unused lines. This improves the performance of the 12V lines considerably for systems with high-end graphics cards in SLI® or CrossFire® mode.

### MULTI-GPU COMPATIBLE

NVIDIA SLI™ and ATI CrossFireX™ certified

### ULTRA-QUIET & TEMPERATURE-CONTROLLED PSU FAN:

Extremely Low Noise Level at (17-25dB)

All PSUs of the COUGAR® CM-Series are equipped with a large and very quiet 120mm fan, which adapts its rotating speed to the PSU temperature. Even on its highest rotating level the fan is still quiet enough to be barely noticeable.



### ATX 12V Design Standard:

PSUs of the COUGAR®-Series correspond to the most current ATX-standards. Multicore CPU and GPU systems are fully supported. Equipped with 6 pin / 8 pin PCI-Express plugs which are supplied through separate +12V lines, the COUGAR®-Series PSUs especially excels in the stable supply of multi-GPU systems.

### MAINBOARD CONNECTOR:




Because of the variable ATX main connector the COUGAR®-Series is compatible to the older ATX-standards as well. COUGAR® PSUs with 700 W or more also support E-ATX server mainboards with an additional 8 pin EPS 12V connector. All other PSUs have a 4+4 pin plug and can be used as 4 pin or as 8 pin solution.

### EMC SOLUTION

Electro Magnetic Compatibility: Electromagnetic filtering protects the system against radiation interferences and extend system lifetime

## SPECIFICATION










### RATING

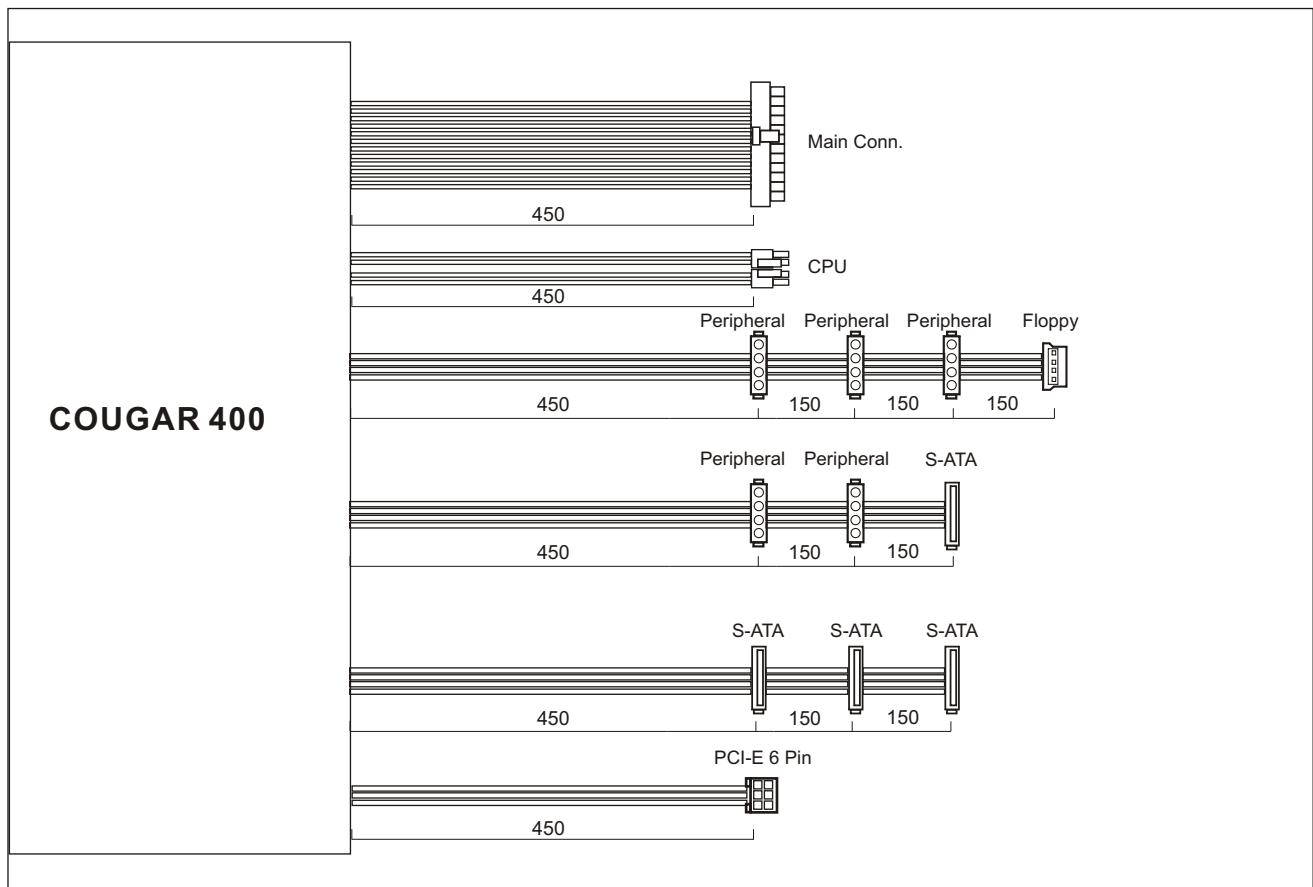
Model Name	Input Characteristics			Output Characteristics							80 Plus®
	Voltage	Frequency	Input Current	+3.3V	+5V	+12V1	+12V2	-12V	+5Vsb	Total output	
Cougar 400	100Vac ~ 240Vac	50-60Hz	8A	24A	15A	20A	20A	0.3A	2.5A	400W	
120W				384W							
Cougar 550			10A	24A	15A	28A	20A	0.3A	2.5A	550W	
120W				480W							
Cougar 700			10A	24A	20A	30A	30A	0.3A	2.5A	700W	
150W				648W							



## SPECIFICATION

### CONNECTORS

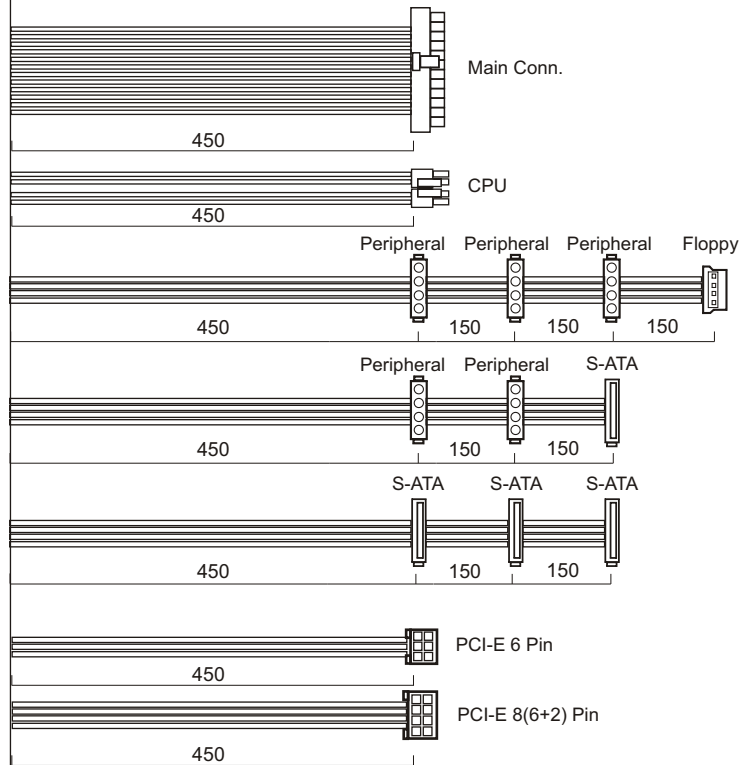
Item Name / Connector									
	Main Conn.	Peripheral Conn.	Floppy Conn.	ATX12V Conn.	ATX/EPS 12V Conn.	S-ATA Conn.	PCI-E Conn.	PCI-E Conn.	Fan Cable
Pin	24(20+4) Pins	4 Pins	4 Pins	4 Pins	8(4+4) Pins	5 Pins	6 Pins	8(6+2) Pins	
Cougar 400	1	5	1	—	1	4	1	—	—
Cougar 550	1	5	1	—	1	4	1	1	—
Cougar 700	1	5	1	—	1	5	—	2	3



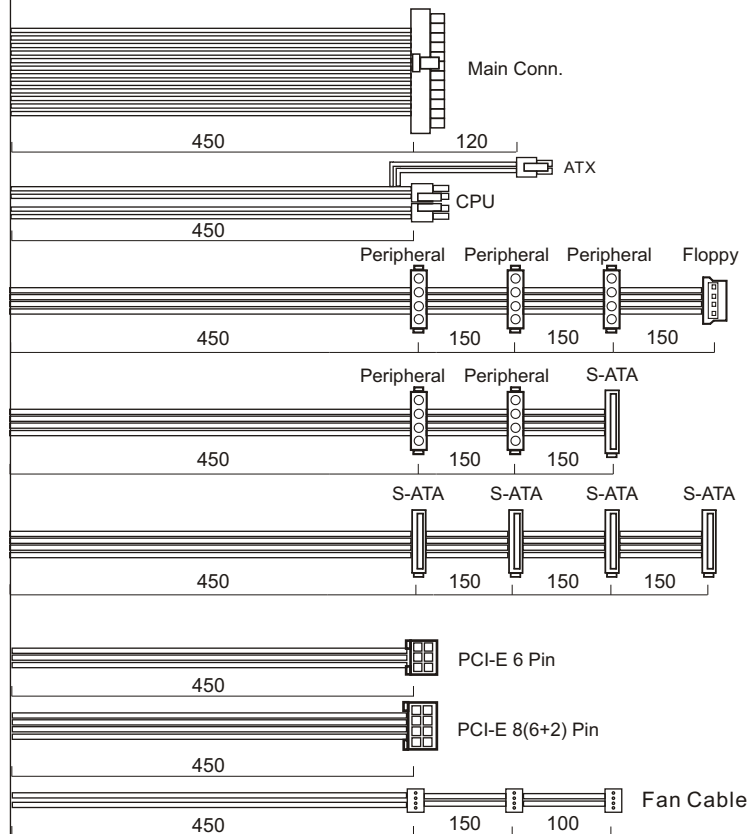


## SPECIFICATION

### COUGAR 550



### COUGAR 700



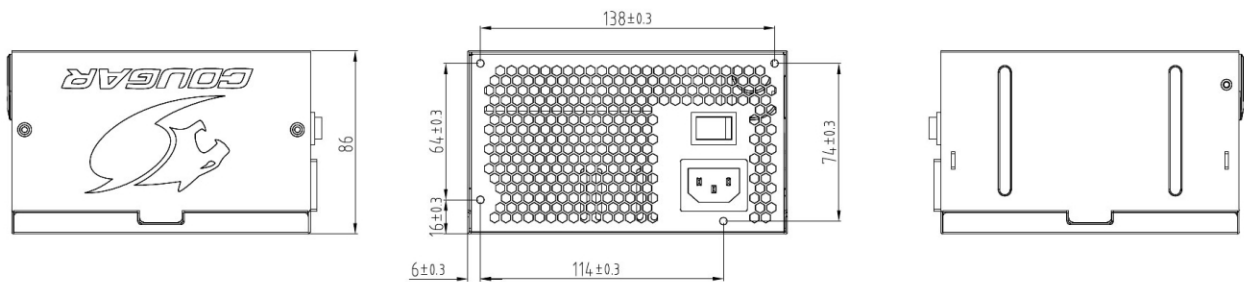
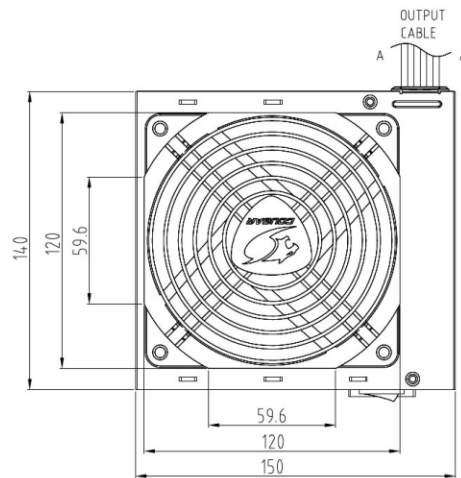
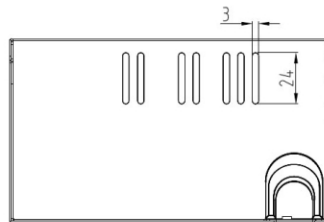


## SPECIFICATION

### DIMENSIONS

Dimension (L*W*H) mm	140 x 150 x 86
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### COUGAR POWER





## SPECIFICATION

### SAFETY FUNCTIONS

#### **UVP** (Undervoltage protection)

If the voltages fall below a certain tolerance value on the single lines, the PSU automatically switches off.

#### **OVP** (Overvoltage protection)

If the voltages increase above a certain tolerance value on the single lines, the PSU automatically switches off.

#### **SCP** (Short-circuit protection)

In the case of a short-circuit this feature prevents damage to the core components of the PSU and its system components.

#### **OPP** (Overload protection)

If the system is oversized and requires more power from the PSU than it can perform, this protection function is activated.

#### **OCP** (Overcurrent protection)

If the load on a single line is higher than indicated, the PSU automatically switches off.

### SAFETY & EMI CERTIFIED:

