



# CMX



CMX450 / 550 / 700

CMX850 / 1000 / 1200W

### COUGAR CMX modular gaming PSUs

CMX is new high-end series of power supplies specifically targeting demanding gamers. The 80Plus Bronze certified provides up to 89% peak efficiency. CMX equipped COUGAR VORTEX fan technology provide optimum cooling efficiency and extremely quiet operation. The attractive black and orange metallic coating in combination with the honeycomb-shaped vent holes add to the overall robust and aggressive appearance of these units, thereby effectively increasing the game-style looks. COUGAR is particularly targeting enthusiast gamers who not only demand highly efficient power supplies, but also want to express their dynamic gaming life style with reliable quality products.



# CMX

## Features

### EXTREMELY HIGH EFFICIENCY

Up to 89% of efficiency, compliant with 80-PLUS® Bronze efficiency requirement.

### COUGAR VORTEX FAN TECHNOLOGY

The entire CMX series of power supplies is equipped with the new and exclusive COUGAR VORTEX 140mm fan, this unique design with its high-vortex-airflow turbine blade and enhanced frame design provide optimum cooling efficiency which in turn leads to a reduction of the fan speed and extremely quiet operation. In addition the advanced HDB (Hydro-Dynamic Bearing) not only minimizes potential noise even further but also prolongs its effective best lifespan.

### ADVANCED MODULAR CABLE

The advanced modular cable management is further improved by utilizing new flat cables that simplify installation as well as reducing air friction in order to maximize airflow. This gives gamers the power they need, and flexibility of easy upgrades they demand.

### DC-DC TECHNOLOGY (850CMX/1000CMX/1200CMX)

DC-DC technology provides highest efficiency, most stable performance, and perfect regulation (Regulation <3%).

### COMPATIBLE WITH LATEST PC-TECHNOLOGY

Supports the newest specifications of ATX12V

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

### SUPPORT MULTI-GPU TECHNOLOGY

Support PCI Express 2.0 next-generation graphic card with 8(6+2)pin PCI-E connector

### HIGHEST DURABLE & RELIABLE SOLID CAPS FOR 12V, 3.3V, 5V (850CMX/1000CMX/1200CMX)

The best solution for a High-End PSU by using solid caps for 12Vs, 3.3V, 5V, solid caps provide highest efficiency, best reliability, and extend power lifespan.

### 105 °C JAPANESE CAPACITORS

COUGAR use highest durable 105°C Japanese capacitors provide uncompromised performance and reliability, delivering 4 times the lifespan of conventional 85°C rated capacitors.

### DYNAMIC MULTI-12V

Automatic dynamic load distribution on multi-12V line to provide power separately to the GPU and the CPU. 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. and provide high voltage stability to keep components safe.

### COMPLIANT WITH LATEST EUROPEAN DIRECTIVE 2009/125/EC (ErP)

### SUPPORTS THE ENERGY STAR 5.0

Compatible with Energy Star 5.0 computer system.

### FULL PROTECTIONS WITH OCP, SCP, OVP, UVP, OPP



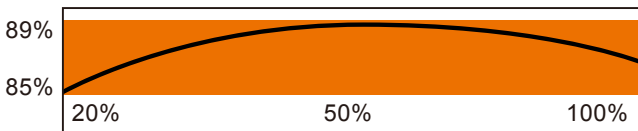
# CMX

## Detailed features



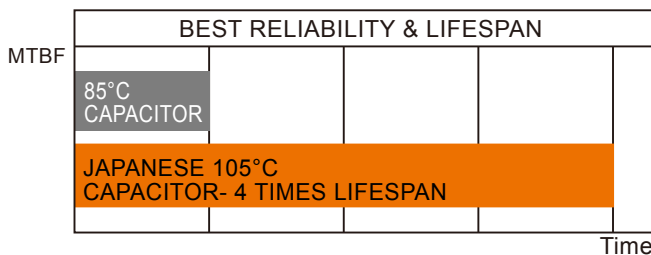
### HIGH EFFICIENCY

Up to 89% efficiency with 80-PLUS® BRONZE efficiency requirement



### 105°C JAPANESE CAPACITORS

Best reliability, delivering 4 times the lifespan of conventional 85°C rated capacitors.



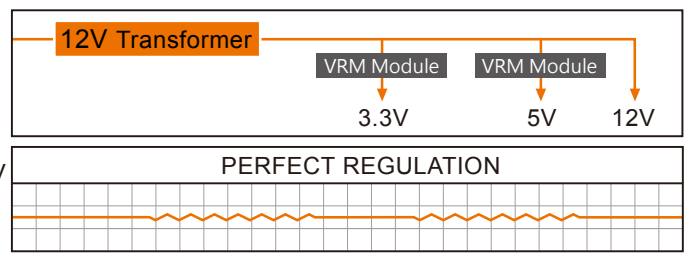
### CLC FILTER DESIGN

Suppress Ripple/Noise <1% for a perfect quality of voltage



### DC-DC TECHNOLOGY (1000CMX/1200CMX)

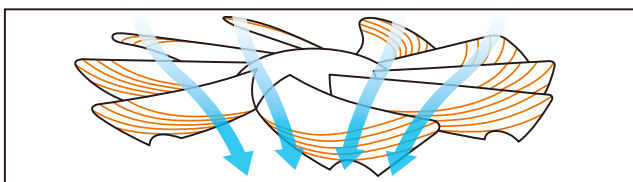
DC-DC-Technology, in which the 3,3- and 5-Volt-Voltages are built out of the 12-Volt-Rail, provides highest efficiency, most stable performance, and perfect regulation (Regulation <3%)



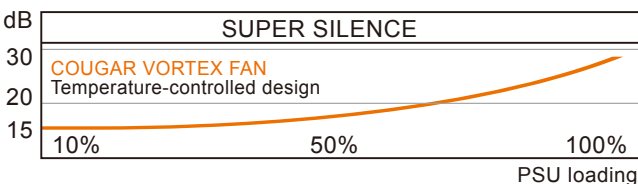
### VORTEX TECHNOLOGY

#### DIVERSION GROOVE BLADE DESIGN

Innovative blade design focus air flow & optimum cooling efficiency (Patent)

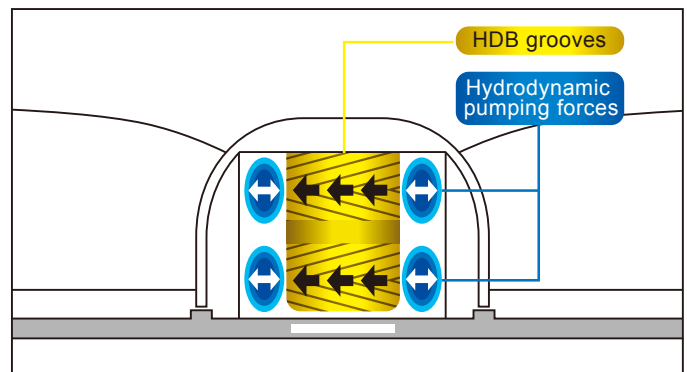


#### SUPER SILENT & BEST LIFESPAN



#### HYDRO-DYNAMIC-BEARING DESIGN

HDB runs more smoothly with no friction, make it quietly & durability(MTBF300,000hrs)





**Specifications**

| Model Name                       | AC input                     | DC output |     |       |       |       |       |       |       |      |       |       |
|----------------------------------|------------------------------|-----------|-----|-------|-------|-------|-------|-------|-------|------|-------|-------|
|                                  |                              | +3.3V     | +5V | +12V1 | +12V2 | +12V3 | +12V4 | +12V5 | +12V6 | -12V | +5Vsb | Total |
| <b>CMX 450</b><br>CGR B2-450CM   | 110-240Vac<br>50-60Hz<br>8A  | 24A       | 15A | 22A   | 20A   | -     | -     | -     | -     | 0.3A | 3A    | 450W  |
|                                  |                              | 120W      |     |       | 420W  |       |       |       |       |      |       |       |
| <b>CMX 550</b><br>CGR B2-550CM   | 110-240Vac<br>50-60Hz<br>10A | 24A       | 15A | 28A   | 20A   | -     | -     | -     | -     | 0.3A | 3A    | 550W  |
|                                  |                              | 120W      |     |       | 480W  |       |       |       |       |      |       |       |
| <b>CMX 700</b><br>CGR B2-700CM   | 110-240Vac<br>50-60Hz<br>10A | 24A       | 15A | 30A   | 30A   | -     | -     | -     | -     | 0.3A | 3A    | 700W  |
|                                  |                              | 150W      |     |       | 648W  |       |       |       |       |      |       |       |
| <b>CMX 850</b><br>CGR B2-850CM   | 115-240Vac<br>50-60Hz<br>10A | 25A       | 25A | 22A   | 22A   | 24A   | 24A   | -     | -     | 0.6A | 3A    | 850W  |
|                                  |                              | 160W      |     |       | 828W  |       |       |       |       |      |       |       |
| <b>CMX 1000</b><br>CGR B2-1000CM | 115-240Vac<br>50-60Hz<br>15A | 30A       | 30A | 24A   | 24A   | 24A   | 24A   | 28A   | 28A   | 0.8A | 4A    | 1000W |
|                                  |                              | 175W      |     |       | 960W  |       |       |       |       |      |       |       |
| <b>CMX 1200</b><br>CGR B2-1200CM | 115-240Vac<br>50-60Hz<br>17A | 30A       | 30A | 24A   | 24A   | 24A   | 24A   | 28A   | 28A   | 0.8A | 4A    | 1200W |
|                                  |                              | 175W      |     |       | 1080W |       |       |       |       |      |       |       |

| Connector                        | Main Connector | CPU Connector | Floppy Adapter | Peripheral Connector | S-ATA Connector | PCI-E Connector | PCI-E Connector |
|----------------------------------|----------------|---------------|----------------|----------------------|-----------------|-----------------|-----------------|
| Pin                              | 24(20+4) Pins  | 8(4+4) Pins   | 4 Pins         | 4 Pins               | 5 Pins          | 6 Pins          | 8(6+2) Pins     |
|                                  |                | 8 Pins        |                |                      |                 |                 |                 |
|                                  |                | 4 Pins        |                |                      |                 |                 |                 |
| <b>CMX 450</b><br>CGR B2-450CM   | 1              | 1             | 1              | 3                    | 6               | 1               | 1               |
|                                  |                | -             |                |                      |                 |                 |                 |
|                                  |                | -             |                |                      |                 |                 |                 |
| <b>CMX 550</b><br>CGR B2-550CM   | 1              | 1             | 1              | 5                    | 6               | 2               | 1               |
|                                  |                | 1             |                |                      |                 |                 |                 |
|                                  |                | -             |                |                      |                 |                 |                 |
| <b>CMX 700</b><br>CGR B2-700CM   | 1              | 1             | 1              | 6                    | 8               | 2               | 2               |
|                                  |                | 1             |                |                      |                 |                 |                 |
|                                  |                | -             |                |                      |                 |                 |                 |
| <b>CMX 850</b><br>CGR B2-850CM   | 1              | 1             | 1              | 6                    | 10              | -               | 4               |
|                                  |                | 1             |                |                      |                 |                 |                 |
|                                  |                | 1             |                |                      |                 |                 |                 |
| <b>CMX 1000</b><br>CGR B2-1000CM | 1              | 1             | 1              | 7                    | 10              | 2               | 4               |
|                                  |                | 1             |                |                      |                 |                 |                 |
|                                  |                | 1             |                |                      |                 |                 |                 |
| <b>CMX 1200</b><br>CGR B2-1200CM | 1              | 1             | 1              | 7                    | 12              | 0               | 6               |
|                                  |                | 1             |                |                      |                 |                 |                 |
|                                  |                | 1             |                |                      |                 |                 |                 |





# CMX



CMX450 / 550 / 700  
( L160 x W150 x H86mm )



CMX850 / 1000 / 1200W  
( L180 x W150 x H86mm )

## Safeties

### UVP (Under-voltage protection)

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

### OVP (Over-voltage 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 (Over-current protection)

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

## Safety & EMI certified



R63088