



English

Introduction

Dear customer:

Thank you for choosing a COUGAR® power supply unit. Before the installation please read the manual below carefully. If you have any questions, please contact our customer service:

Warnings and safety notes

Never open the PSU cover. There is potential danger of life due to high voltage inside. The PSU should only be opened by an authorized technician. The manufacture warranty will be void, if the PSU is opened by an unauthorized person.

Do not work on the PSU or the PC as long as the main voltage is still connected. Switch the I/O button to position "0" and disconnect the power plug from the power network.

Protect the PSU against moisture.

The PSU is suitable for operation at 100-240V~/50-60 Hz and thus universally usable. The ambient temperature should not exceed 50°. Please ensure that there is sufficient ventilation of the entire system.

Make sure during the installation of the PSU that the ventilation slots are not covered. Do not clog the ventilation slots of the PSU. Keep your PC away from direct heat sources such as radiators.

When using an extension cord and/or multiple sockets pay attention to the maximum through-connection ability in order to avoid short-circuits.

During the operation of the PSU pay attention to the maximum loads. The single loads and the total loads must not exceed to cross the values shown in output power table.

Avoid the use of adapters, such as 4Pin Molex to 6+2Pin PCI-Express.

Trouble shooting

Never work on the PSU yourself. Even long time after its deactivation, life-threatening voltages can still be present in the PSU. Repairs should only be made by authorized specialists.

Working at power sources can lead to life-threatening injuries. If there is smoke, cable damage or intrusion of liquids the PSU has to be immediately disconnected from the power network and must not to be put into operation anymore afterwards. Never open the PSU. It contains components, which can show high voltages even after long periods of deactivation. Again, repairs should only be done by authorized specialists!

Problem: After the installation of the new PSU the system does not start. Possible solutions:

- Check the power code and the power supply of the wall socket and/or multiple socket strip. Also check whether the multiple socket strip can supply the necessary power.
- Check all connections within the PC; maybe not all cables are correctly connected.
- Check the components for possible short-circuits or defects.

Please also check the other components for compatibility. Often mainboard chipsets are not compatible with all memory and/or graphics card solutions. Contact the manufacturer of the component to get more information.

If your PSU still does not function even though you have checked sources of errors mentioned above, please get in touch with our customer service.

Advice

This product is not to be disposed in the regular household waste and must be brought to a collection-point for electrical and electronic devices for recycling. The symbol to the left refers to that and can be found on the product, in the manual or on the packaging. Materials can be recycled according to their description. With the reuse, the recycling or other forms of reutilization of old devices you make an important contribution to the protection of our environment. Please inquire the appropriate location of disposal from your local administration.



- 80-PLUS® GOLD CERTIFIED
Up to 91% efficiency power conversion for reducing your electricity bill

- FULLY MODULAR POWER SUPPLY UNIT
Connect only the cables you need for less clutter and better airflow
- HDB FAN POWERED
Hydro Dynamic Bearing fan: Extended durability and lower noise levels

- SUPERIOR FAN CURVE TUNING
Advanced tuning technology for noise minimization

- FLAWLESS OPERATION AT 50°C
Powerful performance at 50°C ambient temperature

- ULTRA-STABLE VOLTAGE OUTPUTS
DC to DC technology for enhanced voltage stability

- SUPPORT FOR MULTI-GPU TECHNOLOGY
Supports PCI Express 3.0 graphic cards with 6+2pin PCI-E connectors

- SINGLE +12V DC SOURCE
Massive outputs for high power devices

- STRONG SAFEGUARDS: OCP, OPP, OVP, UVP, SCP & OTP
Maximum safety for your key system components

Installation/accessories

Before you begin with the installation, please read the section "Warnings and safety notes." For the arrangement only use the supplied screws since these have the correct thread. You need a screwdriver for the correct arrangement.

The following parts are included within the delivery:
• Screws for the PSU assembly

- Power cord (Please only use the power cord which is included; low-quality cords can damage your PSU and your PC-system.)

Warranty and information of the manufacturer

For further information of the warranty terms, please read the information of "Guarantee Terms and conditions for COUGAR Power Supply Units (PSU) of the GX-S series" .

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Made in China

تعليمات التركيب و الأمان:

- يجب فصل التيار الكهربائي بشكل كامل أثناء التركيب.
- يجب تركيب مزود الطاقة في المكان المخصص له فقط.
- يجب تركيب مزود الطاقة من قبل الأشخاص المختصين فقط.
- يجب التأكد من توصيل كافة التوصيلات بالشكل الصحيح.
- احفظ الجهاز بعيداً عن مصادر المياه والرطوبة.
- أفضل التيار الكهربائي فوراً في حالة الاشتباه برائحة دخان.
- تأكد بأن مصدر الطاقة لديك مناسب لما يحتاجه هذا الجهاز.

- Brief instruction incl. Information about the warranty

Installation of the COUGAR® PSU:
• Place the PSU into its designated place within the case and fix it with the supplied screws.

- First insert the plugs for the mainboard supply (20/24 pin, 4 pin and possibly 8 pin – according to mainboard layout) into the respective slots.

- Connect the disk drives and if necessary the graphics cards to the PSU.

- Close the PC and ensure that the PSU power switch is set to the position "0".

- Connect the PSU to the power network using the supplied power cord. Using only the power cord provided in the package. Low quality power cord may damage the PSU and PC system!

- Turn on the PSU and then start your PC.

Safety functions

- OCP (Overcurrent protection)
If the current on a single line is higher than indicated, the PSU automatically switches off.

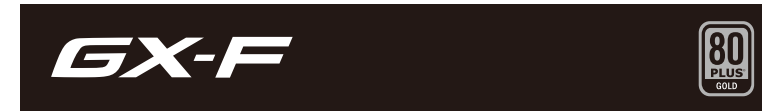
- UVP (Under voltage protection)
If the voltages fall below a certain tolerance value on the single lines, the PSU automatically switches off.

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

- OTP (Over Temperature Protection)
If the temperature is too high, the PSU automatically switches off.



GUARANTEE TERMS AND CONDITIONS FOR COUGAR POWER SUPPLY UNITS (PSU) OF THE GX-F

COUGAR provides a 7-year limited warranty on GX-F series against manufacturing defects in materials and workmanship. During this period, defects in material or workmanship will be repaired or restored with spare parts. To make use of the warranty service, the customer contact the retailer where the PSU was bought and provide a copy of the invoice and an error description. CompuCase will only support directly if the retailer is not reachable repeatedly. In the case of direct support by CompuCase, the end user shall be responsible for packing the product properly and will assume all transportation costs.

CompuCase's warranty does not cover any of the following:

- Damages due to acts of nature (e.g. Lightning, Water, Fire and so on)
- Accessory or consequential damages that happened by using or not using the PSU
- Damages caused by misuse of the PSU or caused by negligence
- Loss of information or data, software or applications
- Damages caused by opening or modifying the PSU without previous accordance
- Damages caused by using or installing the PSU under conditions outside of the technical specifications which are described in the attached manual

This warranty is valid only for the first end user or consumer and is restricted to the above named period.



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Specifications

- Operating conditions
Working temperature: +10°C ~ +50°C
Storage temperature: -40°C~+70°C
Operating humidity (without condensation water): 20%~85% relative humidity
Storage humidity (without condensation water): 5%~95% relative humidity

Output power

	AC input	DC output					
		+3.3V	+5V	+12V	-12V	+5Vsb	Total
GX-F550 CGR GD-550	AC100-240V 47-63Hz 9-4A	24A	24A	45.5A	0.5A	3A	550W
		130W		546W			
GX-F650 CGR GD-650	AC100-240V 47-63Hz 10-5A	24A	24A	54A	0.5A	3A	650W
		130W		648W			
GX-F750 CGR GD-750	AC100-240V 47-63Hz 11-5A	25A	25A	62A	0.5A	3A	750W
		150W		744W			

Connectors

Connector	Main	CPU	Peripheral	S-ATA	PCI-E
Pin	24(20+4) Pins	8(4+4) Pins	4 Pins	5 Pins	8(6+2) Pins
GX-F550 CGR GD-550	1	1	3	6	2
GX-F650 CGR GD-650	1	1	3	8	2
GX-F750 CGR GD-750	1	1	3	8	4

