

ORIGIN

POWER SUPPLY UNIT



Power Supply Unit

ARDOR GAMING 850WGF2

User Manual

Dear Customer,

Thank you for your trust!

Our team fully shares your passion for computer games, which is why we put all our efforts into making your gaming experience unforgettable with our accessories for gamers. Wishing you new victories and the brightest impressions ahead!

Intended Use

The PC power supply unit is designed to provide power to all PC components, thereby ensuring system operation.

Safety Precautions

- This device is intended exclusively for use in computers (e.g., office, multimedia, internet, and gaming PCs). Using the device for other purposes may void your warranty.
- The Power Supply Unit (PSU) is designed for integration into a computer system and is not intended for standalone use or outdoor operation.
- The warranty for the fully modular PSU covers the PSU unit itself and does not extend to additional accessories (e.g., modular cables).
- Do not attempt to disassemble or repair the device yourself, as this will void your warranty. If you detect any malfunctions, please contact an authorized service center.



Risk of severe injury or death

WARNING

- To remove the cover, disconnect the device from the power supply to avoid electric shock or device failure.
- Do not touch the power cable with wet hands, as this may result in electric shock.
- Do not insert fingers or metal objects into the cooling fan or the ventilation slots of the device.

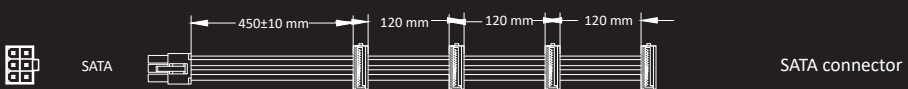
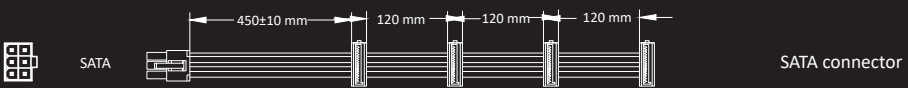
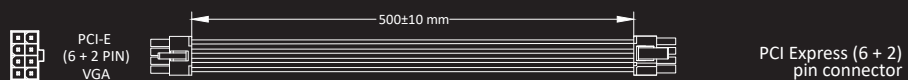
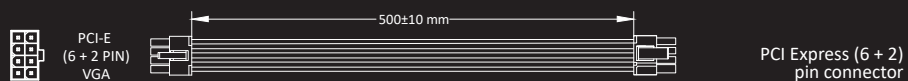
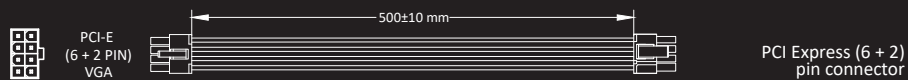
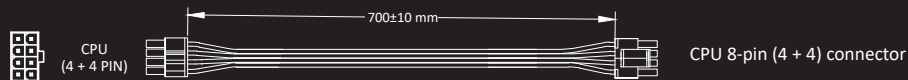
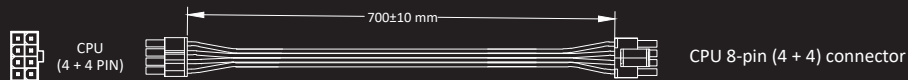
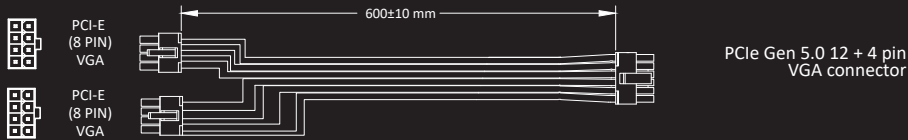
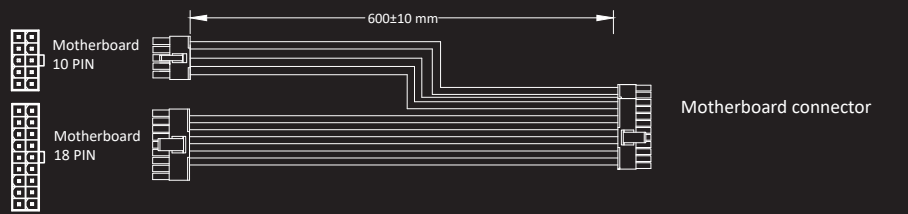


Risk of minor injury or device malfunction

CAUTION

- Do not use the PSU in environments with excessively high or low temperatures, high humidity, poor ventilation, or in close proximity to heat sources.
- Prevent water or other liquids from entering the device.
- To connect the PSU to the motherboard, ensure the device is completely disconnected from the mains power supply.
- Be careful: ensure all cables are connected to their appropriate and corresponding connectors.
- It is recommended to use protective gloves when handling and installing this device.

Power Connector Diagram



Specifications

- Model: 850WGF2
- Trademark: ARDOR GAMING
- Fully modular
- Form factor: ATX
- ATX12V standard: 2.31
- EPS12V support: Yes
- 80 PLUS certification: Gold
- Protection class: I
- IP code: IP00
- Cord type: X
- Power supply (input): 100–240 V ~ 50–60 Hz, 12–6 A
- Power factor correction (PFC): Active
- Maximum power factor: 99%
- Max. efficiency: 90%*
- Power: 850 W
- 12 V rail power: 840 W
- Standby current (+5 V Standby): 3 A
- Current per rail:
 - +12 V: 70 A
 - +5 V: 20 A
 - +3.3 V: 20 A
 - –12 V: 0.3 A
- Main power connector: 1 × (20+4) pin
- CPU power connectors: 2 × (4+4) pin
- GPU power connectors (PCI-E): 3 × (6+2) pin
- Number of SATA connectors: 8
- Number of 4-pin Molex connectors: 3
- 4-pin Floppy connector: No
- Number of PCI-E (12+4 pin) connectors: 1
- Main power cable length: 500 mm
- CPU power cable length: 650 mm
- Fan type: Fluid Dynamic Bearing (FDB)
- Fan dimensions: 120 × 120 mm
- Device dimensions (L × W × H): 140 × 150 × 86 mm
- Protection features:
 - Overvoltage protection (OVP)
 - Overpower protection (OPP)
 - Over temperature protection (OTP)
 - Undervoltage protection (UVP)
 - Short circuit protection (SCP)
 - Overcurrent protection (OCP)

* At 115 V AC, typical load.

DC output voltage regulation	Output voltage		Adjustment range	
	+3.3 V		±5%	+3.14 ~ +3.47 V
	+5 V			+4.75 ~ +5.25 V
	+12 V			+11.4 ~ +12.6 V
	−12 V		±10%	−10.8 ~ −13.2 V
	+5 V (Standby)		±5%	+4.75 ~ +5.25 V
DC output ripple and noise	Output voltage		Standard range	
	+3.3 V		50 mV	
	+5 V			
	+12 V		120 mV	
	−12 V			
	+5 V (Standby)		50 mV	
Output voltage	Rated output load		Total power	
	Min.	Max.		
+3.3 V	0 A	20 A	100 W	850 W
+5 V				
+12 V		70 A	840 W	
−12 V		0.3 A	3.6 W	
+5 V (Standby)		3 A	15 W	

Operating Instructions

1. Connect the power connectors to the PSU according to the diagram. A clicking sound indicates the connector is properly seated.
2. Install the PSU into the PC case.
3. Secure the PSU using screws and a screwdriver (not included).
4. Route the cables to the corresponding ports on the PC components.

Package Contents

- Power supply unit
- Cable set
- User manual

Rules and Conditions for Installation, Storage, Transportation, Sale (Distribution), and Disposal

- The installation and mounting conditions for the device are described in the «Operating Instructions» section of this user manual.
- The device must be stored in its original packaging, on heated premises, both at the manufacturer's and at the consumer's sites. The ambient temperature should be between +5 °C and +40 °C, and the relative humidity should not exceed 80% (non-condensing). The storage area must be free from aggressive contaminants (e.g., acid or alkali vapors) that could cause corrosion.
- The device must be transported in a dry place.
- The device requires careful handling. Protect it from exposure to dust, dirt, impact, moisture, fire, and other hazards.
- Sale or distribution of the device must be carried out in accordance with local legislation.
- Upon expiration of the device's service life, it must not be disposed of with unsorted household waste. Instead, it must be taken to an authorized collection point for electrical and electronic equipment for subsequent recycling and disposal in accordance with federal or local legislation. By ensuring proper disposal of this product, you help conserve natural resources and prevent potential harm to the environment and human health that may result from improper handling. For more detailed information about collection and disposal points for this product, please contact your local municipal authorities or your household waste disposal service.
- If a device malfunction is detected, immediately contact an authorized service center or dispose of the device.

Warranty Information

The manufacturer guarantees the device will function properly throughout the warranty period and be free from defects in materials and assembly. The warranty period commences on the date of purchase and applies to new products only. Warranty service includes free repair or replacement of defective parts that fail during the warranty period, provided the failure is not caused by consumer misuse and the product is operated in accordance with the user manual. Repairs or part replacements shall be performed at authorized service centers.

Warranty Period: 120 months

Service Life: 120 months

For the up-to-date list of authorized service centers, please visit:

<https://www.dns-shop.ru/service-center/>

Additional Information

Manufacturer: Dongguan Huicheng Electronic S&T Co., Ltd.

Baihao Industry Zone, Houjie Town, Dongguan City, Guangdong Province, P.R. China.

Made in China.

The product meets the requirements of the technical regulations of the TR CU (EAEU).

Product specifications, information and appearance are subject to change without prior notice, for quality improvement of our products.



Production date (mm.yyyy):

V.1

