



Manual

Argus RGB-500 II
Argus RGB-600 II
Argus RGB-700 II
Argus RGB-650CM II
Argus RGB-750CM II

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1 Important Information

1.1 Introduction

Thank you for buying an Argus Power Supply.

This power supply is equipped with latest technology and supports all modern processors.

Argus power supplies meets RoHS II as well as the EU directive 2014/30/EU.

To join this power supply for a long time we recommend to read this manual carefully and especially paying attention for the security advices.

1.2 Scope of delivery

1x Power supply




1x Power cord 230V

4x Thumbscrews

4x Cable straps

1.3 General information

Symbols

Symbols	Meaning
	Handling and effects of safety instructions
	Dangerous situation, which can retighten violation or death
	Possible damage of property and other important information.

2 Safety

2.1 Intended use

2.1.1 Environment

This product is only for indoor use and mounting in computer cases.

Don't use and store it inside humid rooms or near water.

Don't use it close to source of heat. The additional heat could lead to overheating and fire.

2.1.2 Disposal

Don't put this device to normal waste.

Please read the instruction at side 10 for disposal of packaging and device.

2.2 General instructions

Please read this manual carefully before installing or use this product.

Keep this manual and pass it by passing of the product.

Please follow the instructions and warning of this manual before using the product.

The inobservance of this manual can effect violations and damage.

We disclaim liability for violations and damages caused by inobservance of this manual.

2.3 Danger and Protection

Don't stick any sharp items into the power supply

Don't damage the cable.

Don't pull the plug by pulling at the cable.

Don't use any patched or damaged cable or plug.

Don't use the cable or product close to heat source.

In case of strange noise or smell pull the power cord out of the socket.

Don't open the housing of the product. (fire hazard/ electric strike)

Don't insert any items into the air holes. (fire hazard/ electric strike)

Please ensure, that all cables will be fixed permanently.

Keep the product away from children.

Don't remove the cable with wet hands. (electric strike))

Don't use the product with wet hands. (electric strike))

Please remove the power cord from socket in case of longer non-use (Could led to

overheating, fire hazard or electric strike)

Keep the product free of dust (Overheating or fire)

Look for sufficient airflow to avoid overheating and fire)

Leave service or cleaning only authorized qualified personnel.

3 Technical data

3.1 Intel standard

Intel ATX 12V 2.30

3.2 Input

3.2.1 Input voltage

Input: 100-240V~, 47-63Hz

3.2.2 Power Factor

Active PFC > 0,98 at 100% Load

3.2.3 5VSB Efficiency

5VSB rail meets EUP 2013

<u>Load on 5VSB</u>	<u>Efficiency at 230V AC, 50Hz</u>
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0 %	< 0,5W (PS-OFF)
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3.3 Output

3.3.1 Performance

Model	Power	12V	3,3V	5,0V	Combined	-12V	5VSB
RGB-500 II	500W	40A	18A	15A	100W	0,3A	2,5A
RGB-600 II	600W	50A	20A	20A	100W	0,3A	2,5A
RGB-700 II	700W	58A	20A	20A	100W	0,3A	2,5A
RGB-650CM II	650W	54A	20A	20A	100W	0,3A	2,5A
RGB-750CM II	750W	62A	20A	20A	100W	0,3A	2,5A

3.3.2 Safeties

OVP – Over Volt Protection

The power supply shuts down at output over voltage.

OPP - Over Power Protection

The power supply shuts down at 120% total over load.

SCP – Short Circuit Protection

The power supply shuts down at short circuit of +3,3V, +5V, +12V rail. The power supply will restart automatically if a short circuit of the +5VSB rail is fixed.

3.3.4 Quantity of secondary connectors

Model	ATX 20+4pin	EPS/ P4 4+4pin	IDE 4pin	SATA 5pin	FDD 4pin	PCIe 6+2pin
RGB-500 II	1	1	4	4	1	1
RGB-600 II	1	1	3	6	1	2
RGB-700 II	1	2	3	6	1	4
RGB-650CM II	1	1	3	6	1	2
RGB-750CM II	1	2	3	8	1	4

3.4 Miscellaneous

3.4.1 Fan

Size: 140mm
 Control: automatically
 Noise: 19-35 dB
 Lightning: 21 RGB-LEDs

3.4.2 Dimension

Size: 86 x 160 x 150 mm (h/w/d)

3.4.3 Environmental

Temperature at work	0 – 45°C
Temperature at storage	-40 – 70°C
Humidity at work	5 – 85% (non condensing)
Humidity at storage	5 – 95% (non condensing)

3.4.4 Life time

MTBF > 100.000 hrs.

4 Secondary connectors

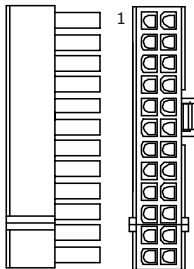
All connectors are standardized and made against reverse connection.

In case of difficulties during connection, please make sure to use the right connector or rotate the connector by 180°.

Don't try to insert a connector forcibly.

4.1 P1 ATX-Mainboard connector 20+4-pin.

Signal	Pin	Signal	Pin
+3,3V	1	+3,3V DC	13
+3,3V	2	-12V DC	14
COM	3	COM	15
+5V DC	4	PS_ON	16
COM	5	COM	17
+5V DC	6	COM	18
COM	7	COM	19
PWR_ok	8		20
+5V SB	9	+5V DC	21
+12V DC	10	+5V DC	22
+12V DC	11	+5V DC	23
+3,3V	12	COM	24

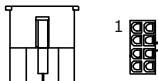


Pins 11/ 12/ 23/ 24 are made as separate jack. It can be swung away in case of using older mainboards.

Don't remove it totally, to avoid a mix-up with the P4 connector.

4.2 EPS/ P4 Mainboard connector 4+4-pin.

Signal	Pin	Signal	Pin
COM	1	+12V DC	5
COM	2	+12V DC	6
COM	3	+12V DC	7
COM	4	+12V DC	8

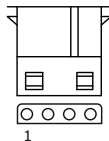


Depending your mainboard you need an 8pin or 4pin connector. For that the connector is divisible. In case of using just the 4pin connector the rest of the connector is without function.

Don't plug him into another socket on the board.

4.3 IDE - connector 4-pin.

Signal	Pin
+12V DC	1
COM	2
COM	3
+5V DC	4



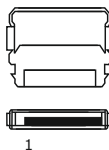
4.4 FDD connector 4-pin.

Signal	Pin	Signal
+5V DC	1	+12V DC
COM	2	+12V DC
COM	3	+12V DC
+12V DC	4	+12V DC



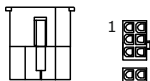
4.5 SATA connector 15-pin.

Signal	Pin #
+3.3VDC	1
+3.3VDC	2
+3.3VDC	3
Masse	4
Masse	5
Masse	6
+5VDC	7
+5VDC	8
+5VDC	9
Masse	10
Masse	11
Masse	12
+12VDC	13
+12VDC	14
+12VDC	15



4.6 PCI-Express connectors 6+2-pin.

Signal	Pin	Signal	Pin
+12V DC	1	COM	5
+12V DC	2	COM	6
+12V DC	3	COM	7
COM	4	COM	8



Some graphic adapter need only a 6pin plug for connection. In this case, pull off the 2pin connector from the PCIe connector.

5 Mounting and first use

1. Take out the power supply and check the package content for completeness or damages.
2. In case of missing parts or external damages, please contact your local dealer for replacement.

Please keep the original package for shipping in case of warranty case.

Please connect the power supply to the grid after connecting all other devices.

Fix the power supply with the enclosed screws to the allocated place of the computer case

3. Connect all components with the suitable cables.

Please follow also point 4 (Secondary connectors), as well as the instructions of the component manufacturers.

Wrong connection of the components can cause damage.

In case of discrepancies or questions please contact your local dealer or our service – Hotline.

4. Place all cables in a way to avoid disturbing airflow or any rotating fan. Use the enclosed cable strips.
5. Connect the power supply with the electric socket.

Use only the original power cord. In case of a damaged cable, please change it against a proved power cord from your local dealer.

6. Switch on the power supply at the backside of the power supply. Your Computer is ready now.

By power-on the power supply the power supply is in Stand-By mode to start the computer by pressing the start button at the case front. To separate the computer totally from the electric grid power –off the power supply directly.

6 Cable management

The models RGB-650CM and RGB-750CM have a cable management which enables to connect just those cables which are really needed.

This creates a clear view inside the case and improves the air flow which extends the life time of the components by better cooling.

Connect these wires as per description before. The connection at the power supply side is labeled and will results automatically by the connector form and size.

If all cables are connected fix them with the cable straps in the case to avoid interferences of fans or air flow.

7 RGB control

The build-in RGB LEDs can be controlled in two ways:

1. By switch at the backside of power supply.

Red button Switchs LED On/Off

Green button Switchs the LED mode

2. By external switch.



The power supply has an additional cable with two pin connector. This connector can be connected to a separate switch (e.g. Reset Switch) or any other switch. A separate switch is not included.

Please consider, that you still have to switch on the power supply by the red button when using a separate button for controlling.

3. The power supply has also a RGB LED 5V Digital connector which can be plugged to a matching socket on the Mainboard. Then the RGB Lighting of the power supply can be controlled through the Mainboard. Please read the manual of your Mainboard for this.

To switch to the mainboard mode press the green button for 5 second till the lights flash once.

8 FAQ

Error	Possible reason(s)	Help
The power supply runs shortly and stops.	Short circuit on Mainboard, HDD, FDD or CD-ROM	Check all connectors for right connection
		Eliminate short circuit or change components.
Power supply won't start	Secondary connectors not connected	Check all connectors for right connection
	Main-Switch on power supply is off	Switch On the Main - Switch
	Power cord isn't connected	Check if power cord is connected to power supply and electric socket
	Power cord defective	Change power cord against approved new power cord
	Power socket defective	Let authorized expert check the socket
RGB Fan don't shines	Switch at the backside of the power supply is off.	Switch on the LED light

Please unplug power cord generally when working inside the Computer.

In case of checking the electric socket exists risk of electric strike.

Leave work on mains supply only authorized experts.



100 Ohms Netzstecker
JAN 04



9 Maintenance

The power supply needs no maintenance which requires opening of the housing or working inside the power supply.

But cause of the intake of air, dust can collect inside the power supply. This can lead overheating or fire.

You can remove this dust with compressed air by yourself. To do this, unplug the power supply from mains supply, dismount the power supply in reversed way as described before and blow the dust with compressed air through the fan grid out of the housing.

Don't use a wet or moist rag to remove dust. Hazard of electric shock.

Do not open the power supply in any circumstances. You will risk your life by an electric shock, destroy any components and lose your warranty claim.

We recommend to let do the cleaning from authorized experts.

10 Disposal

Please dispose your product by using the special discharge point for electronic waste. Please ask your municipality or disposal company in case of further questions.

11 Warranty

Inter-Tech grants 36 months warranty by proper use up from the date of purchase.

In case of warranty please contact your local dealer or the dealer from which you bought the product.

We will grant no warranty by:

- Missing or damaged warranty seal,
- Negligent behavior,
- Improper use,
- Nonobservance of the manual,
- External violence,
- Acts of god,



Inter-Tech Elektronik Handels GmbH

- Damages caused by manipulation, upgrading, updating or reconstruction of hardware or software
- Damages caused by other harm,

In case of data loss Inter-Tech will only be liable at wanton negligence or deliberate intention or, in all other cases, only for the recovery of data from a continuous, daily backup. Inter-Tech does not assume liability for all other matters.

Please look also at our complete warranty terms on our website.

12 Contact

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