



Manual

**FlexATX 250W
FA-250 82+**

1	Important information	3
1.1	Introduction	3
1.2	Scope of delivery	3
1.3	General information	3
2	Safety	4
2.1	Intended use	4
2.1.1	Environment	4
2.1.2	Disposal	4
2.2	General instructions	4
2.3	Danger and protection	4
3	Technical data	5
3.1	Efficiency	5
3.2	Input	5
3.2.1	Electric connection	5
3.2.2	Power Factor	5
3.3	Output	5
3.3.1	Performance	5
3.3.2	Safeties	6
3.3.3	Quantity of secondary connectors	6
3.4	Miscellaneous	6
3.4.1	Fan	6
3.4.2	Dimension and weight	6
3.4.3	Environmental	6
3.4.4	Life time	6
4	Secondary connectors	7
4.1	P1 ATX-Mainboard connector 20+4-pin	7
4.2	P4 Mainboard connector 4-pin	7
4.3	IDE connector 4pin	7
4.4	PCIe connector 6+2 pin	7
4.5	SATA connector 15-pin	8
5	Mounting and first use	8
6	FAQ	9
7	Maintenance	9
8	Disposal	10
9	Warranty	10
10	Contact information	10

1 Important Informationen

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 2009/125/EC.

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 (Only retail version)

4x Cable straps (Only retail version)

1.3 General information

Symbols

Symbols	Meaning
	Handling and effects of safety instructions
	Dangerous Situation, which can retighten violations or death.
	Possible damage of property and other important informations.

2 Safety

2.1 Intended use

HINWEIS

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.



HINWEIS

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)



Flammable

Leave service or cleaning only authorized qualified personnel.

3 Technical data

3.1 Efficiency

This power supply has an efficiency of at least 82% at 20%, 50% and 100% load.

3.2 Input

3.2.1 Input voltage

Input: 100-240V, 50/60Hz

HINWEIS

3.2.2 Power Factor

Active PFC > 0,95 at 100% load

3.3 Output

3.3.1 Performance

	Min	Max	
+3,3V	0,10A	16A	± 5%
+5V	0,20A	18A	± 5%
+12V	0,60A	20A	± 5%
-12V	0,00A	0,3A	± 5%
+5VSB	0,05A	2,0A	± 5%

Model	Total	12V	3,3V	5,0V	Combined	-12V	5VSB
FA-250 82+	250W	240W	16A	18A	100W	3,6W	10W

3.3.2 Safeties

OVP – Over Volt Protection

The power supply shuts down at following output voltages

Voltage	Min.	Norm.	Max.
+5V	5,5 V	6,3 V	7,0 V
3,3V	3,76V	4,1V	4,5V
+12V	13,4 V	15.0 V	16,0 V

OCP – Over Current Protection

The power supply shuts down when more than 120-160% total load.

SCP – Short Circuit Protection

The power supply shuts down at short circuit in +3,3V, +5V, +12V, -12V rail.

3.3.3 Quantity of secondary connectors

Model	ATX	EPS/ P4	IDE	SATA	FDD	PCIe
	24pin	4+4pin	4pin	15pin	4pin	6+2pin
Fa-250 82+	1	1	2	2	0	1

3.4 Miscellaneous

3.4.1 Fan

Size:	40mm
Fan control:	automatic
Speed:	max. 5000rpm

3.4.2 Dimension and weight

Dimension:	80 x 150 x 40 mm (w/d/h)
Weight:	0,77 kgs

3.4.3 Environmental

Temperature at work	0 – 50°C
Temperature at storage	-40 – 70°C
Humidity at work	10 – 90% (not condensing)
Humidity at storage	5 – 90% (not condensing)

3.4.4 Life time

MTBF > 100.000 hrs. at 80% load/ 230V

4 Secondary connectors

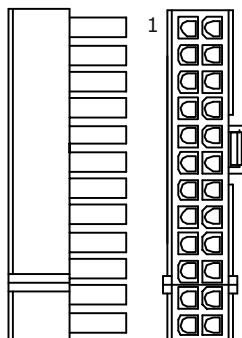
All connectors are standardized and made against reverse connection.

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

HINWEIS

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



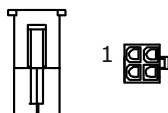
Pins 11/ 12/ 23/ 24 are made as separate jack. It can be swung away in case of using older mainboards.

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

HINWEIS

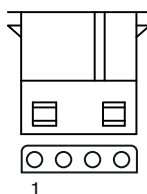
4.2 P4 Mainboard connector 4-pin

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



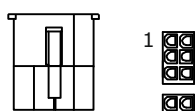
4.3 IDE - connector 4-pin

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



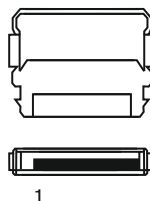
4.4 PCIe connector 6+2 pin

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



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



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.

HINWEIS

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.

HINWEIS

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 the instructions of the manufacturer of the components.

HINWEIS

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.



Das Netzteil befindet sich im StandBy-Modus um den Computer über den Power-Schalter am Gehäuse starten zu können. Wenn Sie Ihren Computer vollständig vom Stromnetz trennen wollen, ziehen Sie den Netzstecker.

HINWEIS

6 Fehlersuche

Error	Possible reason	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

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.



7 Maintenance

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

HINWEIS

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.



HINWEIS

8 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.



9 Warranty

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,
- 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.

10 Contact

Inter-Tech Elektronik Handels GmbH
Hainhäuser Weg 93
D-30855 Langenhagen
Germany

Tel: +49 511 72667830
Fax: +49 511 72667837
Email: vertrieb@inter-tech.de

www.inter-tech.de



www.inter-tech.de