

AUDIONET

EPS

Enhanced Power Supply

User's Manual

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1 Preface

The Audionet-Team would like to congratulate you for purchasing the Audionet EPS! Surely you are a satisfied owner of an Audionet device. With the external power supply EPS you have the possibility to give all connected units a more sophisticated fundament.

Please read this manual before first use to make sure that you are able to use all provided functions of your new unit. In case of occurring questions, please do not hesitate to contact your local Audionet dealer or our factory directly.

1.1 Included

Included you will find the following items:

- the Enhanced Power Supply EPS
- the user's manual (that you are currently reading)
- one EPS connection cable
- one standard mains cord*

1.2 Transport

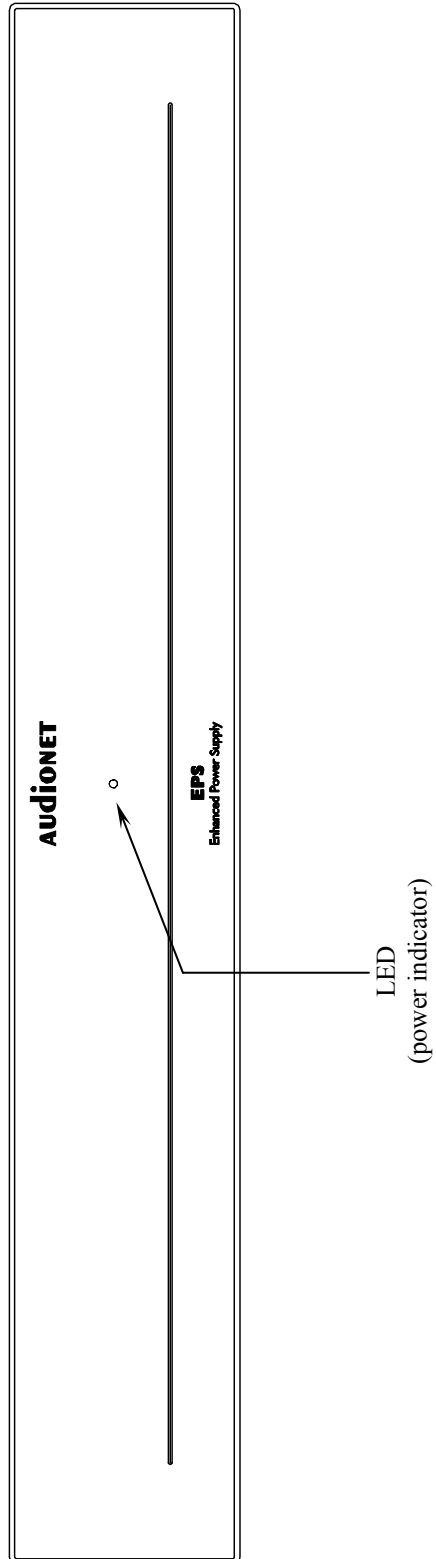


Important

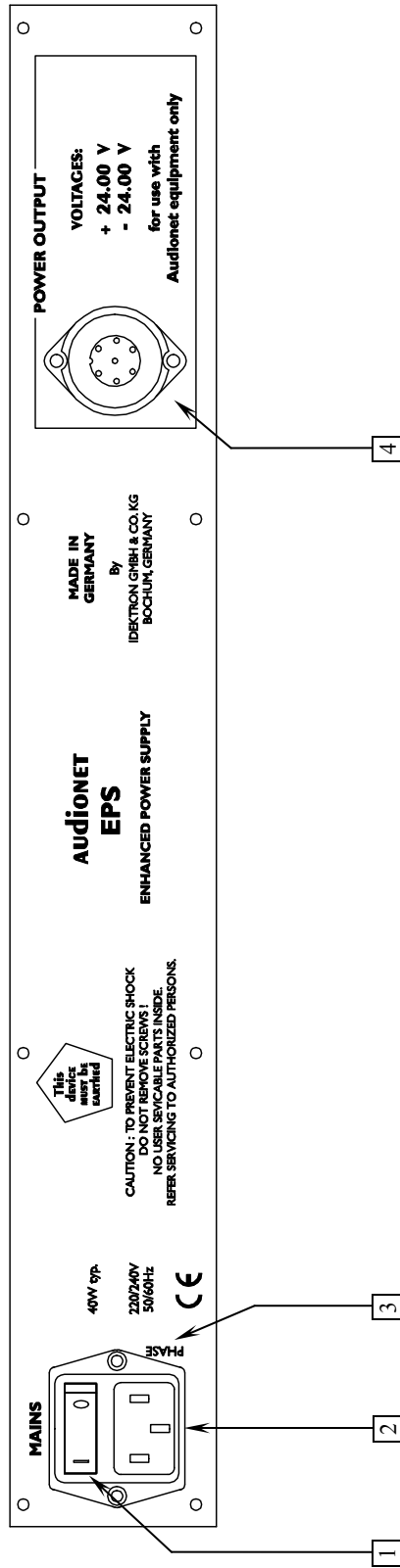
- Please transport the EPS only in the included package.
- Always use the plastic bag to prevent scratches on the casing.
- Please allow the EPS to adapt to the climatic conditions in your listening room before you switch on the unit for the first time after transport.

* If the mother unit has a 5-pin EPS socket

2 Overview front panel



3 Overview back panel



- 1 Mains switch
- 2 Mains input
- 3 Marking mains phase
- 4 7-pin connector

4 Installation and connection



Important

- For connecting or removing the EPS to the mother unit, the EPS and the mother unit must be switched off to prevent damage to both devices.
- Please make sure that all cables are in absolute best conditions! Broken shields or shorted cables could damage both devices.

4.1 Placement



Important

- Place the EPS right beside or at least 20 cm above/below of the mother unit.
- It is recommended to place the EPS into a high quality rack or onto a stable table.
- Do not expose the unit to direct sunlight.
- Do not cover the ventilation slots.
- Do not place the EPS in close range to heat sources like radiators.
- Do not place the EPS on top of other units, especially not on top of power amplifiers, pre amplifiers or similar that produce heat. Both units could suffer damage from thermal overload.
- Do not use the unit in places where it is exposed to vibrations.
- Do not place the unit close to loudspeakers or into the corner of a room where it is exposed to high levels of sonic energy, which might reduce the sound quality of the unit.

4.2 Mains connection

The mains input 2^{*} is on the back panel of the EPS. To connect the unit to the mains use the included mains cord respectively the mains cord of your mother unit with 7-pin connector (except MAP, MAP V2, MAP I), see section '*Connecting the mother unit*' on page 9.

If you prefer to use a different power cord make sure that it meets the specifications for your home country

^{*} see numbers in section '*Overview back panel*' on page 8.





Important

- The electrical specifications of your home country must meet the electrical specifications printed onto the back panel.
- The EPS is a Class I unit and must be earthed. Please ensure a stable earth connection. The Phase ('hot' pin) is marked 'PHASE' [6] on the back panel for the mains input.
- Never pull the mains plug while the EPS is switched on! Before you pull the mains cord off the socket, power down the unit to stand-by mode.

Only in cases of extended absence – like vacations – or if massive trouble on the mains power is to be expected you should switch off the EPS from the mains using the mains switch [1]. To disconnect the unit completely from mains pull the mains plug.

4.3 Connecting the mother unit

For the connection of the mother unit an EPS-cord with 5-pin or 7-pin connector is needed. An overview can be found in the following table.

	EPS-cord with 5-pin connector	EPS-cord with 7-pin connector	
Image of the connector			
Mother unit	PRE 1 G3 VIP, VIP G2, VIP G3 ART, ART V2, ART G2, ART G3	PRE 1, PRE 1 G2 CAT PAM, PAM V2, PAM G2	MAP, MAP V2 MAP 1
Mains connection of the mother unit	needed	not needed	needed




Important


- Do not connect mother devices equipped with 7-pin connectors (except MAP, MAP V2, MAP I) to mains! This would compromise the quality of audio performance. Use only **one** mains cord to connect the EPS to mains. Therefore no mains cord is included in these cases.

5 Usage

5.1 Powering up

First of all, please make sure your EPS is connected correctly to the mother unit and the mains (see section '*Mains connection*' on page 8 and '*Connecting the mother unit*' on page 9).

The EPS is a stand by unit. Please operate the mains switch  on the back panel to put the EPS in stand by mode.


Only in cases of extended absence (like vacations) or if massive trouble on the mains power is to be expected (e.g. thunder storms) it is recommended to disconnect the EPS from the mains. To disconnect the EPS from mains completely, you have to pull the mains cord off the mains jack .



Important

- **Never pull the mains cord while the EPS or the mother unit is switched on! Before you pull the mains plug, power down the mother unit to stand-by mode and switch off the EPS on the back panel.**

5.2 Switching on/off

Please operate the mains switch  on the back panel to put the EPS in stand by mode.

The position of mains switch of mother devices that need no additional mains connection (see section '*Connecting the mother unit*' on page 9) is negligible. All other mother devices must be switched on.

Now operate the mother device as usual, all functions are the same. If the mother device is switched on, the LED on the EPS front panel is activated.

If you switch off the mother device, the power LED of the EPS turns off.



Note

- For further information on starting up a mother device with 5-pin connector in combination with an EPS please consult the user's manual of the mother device.

6 Technical Information

Your EPS provides the mother unit with ideal operating conditions. The popular usage of accumulators shows the following serious disadvantage:

The output voltage is not short term stable: The inner resistance is 10 times as bad as the one of your EPS causing a 10 times higher output voltage ripple at the same load fluctuations.

The output voltage is not long term stable: The output voltage of an accumulator is highly dependent from its state of charge and usage history, typically ranging from 23 to 28 Volts (The EPS always provides 24.00V)

The usage of accumulators is questionable regarding to environmental concerns.

Last not least you are able to listen to your music with high-end quality using the EPS whenever you like not being forced to wait for accumulators being charged.

7 Security advice



Important

- Avoid packaging material, especially plastic bags, coming into children's hands!
- Store and operate the unit in a dry room at a reasonable room temperature only!
- Avoid moisture, any liquids, dirt or small objects getting into the unit!
- Set up the unit in a sufficiently ventilated environment!
- Do not cover the unit!
- **Do not open the unit. Unauthorised opening will void warranty!**
- Use dry cloth for cleaning!

8 Technical data

Type	ultra low noise, highly stable and constant power supply for Audionet units
Power supply	two encapsulated 100VA toroidal transformers and 260.000 μ F capacity
Circuitry	reference voltage sources for pos. and neg. analog voltages using discrete Audionet voltage regulators (MOS)
Connections	7-pin socket for connecting the mother unit
Output voltage	± 24.00 V for analog sections, approx. +5V for digital and control sections
Stability	± 0.01 V at 0.5 A
Noise	-144 dB or 1.5 μ V _{eff} at 0 Hz to 22 kHz
Mains	230 V, 50..60 Hz
Power consumption	Stand-by < 0.5W, max. 40 Watt
Dimensions	Width: 430 mm Height: 70 mm Depth: 310 mm
Weight	9 kg
Finish	Front: , 10mm brushed aluminium, black anodised white print or, 10mm aluminium 'nature', anodised, black print Cover: aluminium, black anodised, 2 mm Chassis: steel, black coated, 2 mm

Errors and omissions excepted. Specifications and design are subject to changes without prior notice.

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