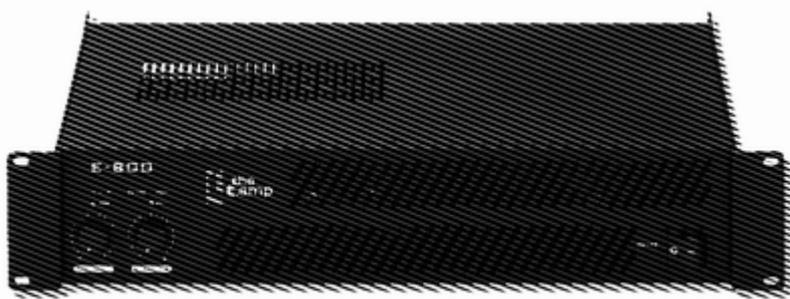


**the
t.amp**

E-800
power amplifier



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1 General notes

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section gives an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety notes

Intended use

Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

**NOTICE!****Magnetic fields**

The device generates strong magnetic fields that can interfere with the function of poorly shielded devices. The strongest magnetic fields are directly above and below the power amplifier. Therefore, never place sensitive devices such as pre-amplifiers, radio transmission systems, or tape decks directly above or below the power amplifier. When installing the power amplifier into a rack, you should place it in the lowest position, and further equipment such as pre-amplifiers in the highest position.

3 Installation and operation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.



DANGER!

Electric shock caused by high voltages at the power amplifier output

The output voltages of modern high-performance amplifiers may result in death or serious injury.

Never touch the bare ends of loudspeaker cables when the amplifier is on.



NOTICE!

Magnetic fields

The device generates strong magnetic fields that can interfere with the function of poorly shielded devices. The strongest magnetic fields are directly above and below the power amplifier. Therefore, never place sensitive devices such as pre-amplifiers, radio transmission systems, or tape decks directly above or below the power amplifier. When installing the power amplifier into a rack, you should place it in the lowest position, and further equipment such as pre-amplifiers in the highest position.

XLR connectors for signal inputs and outputs



Balanced female XLR panel connectors are used for the signal inputs. Male XLR panel connectors are used for the signal outputs. The figure and the table show the XLR pin assignment.

1	Ground
2	Signal (+)
3	Signal (-)

Jack plug for signal inputs and outputs

The figure and the table show the pin assignment of the ¼-inch (6.35-mm) jack plugs (unbalanced and balanced).



1	Signal
2	Ground



1	Signal (+)
2	Signal (-)
3	Ground

speakON connector for loud-speaker connections

The following figure shows the pin assignment of the lockable speakON panel connector.



Possible operation modes

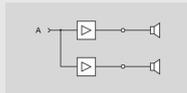
Depending on the individual application, the amplifier can be used in different operation modes:

Stereo mode



The two amplifier channels operate independently of one another, either channel (A and B) is amplified and connected to loudspeakers, the volume can be controlled separately for the two outputs.

Parallel mode



The two amplifier channels receive the same input signal from channel A and loudspeakers are connected to each amplifier, the volume can be controlled separately for the two outputs.

Bridged mode



The two amplifier channels are internally connected in such a way that twice the output power is available. Only the input signal from channel A is amplified and loudspeakers are connected only to the correspondingly marked output. The volume is controlled via the control knob for channel A.

For each output of the amplifier, the total impedance resulting from the loudspeakers connected to it must not be below the allowed minimal impedance of the amplifier output. If you connect more than one loudspeaker to an amplifier output, please note the following:

- If the loudspeakers are connected in a series, the individual impedances will be added up.
- If the loudspeakers are connected in parallel, the reciprocal of the total impedance equals the sum of the reciprocals of the individual impedances.

Example: If you have two loudspeakers with the same impedance, their impedance doubles if they are connected in a series, their impedance halves if they are connected in parallel.

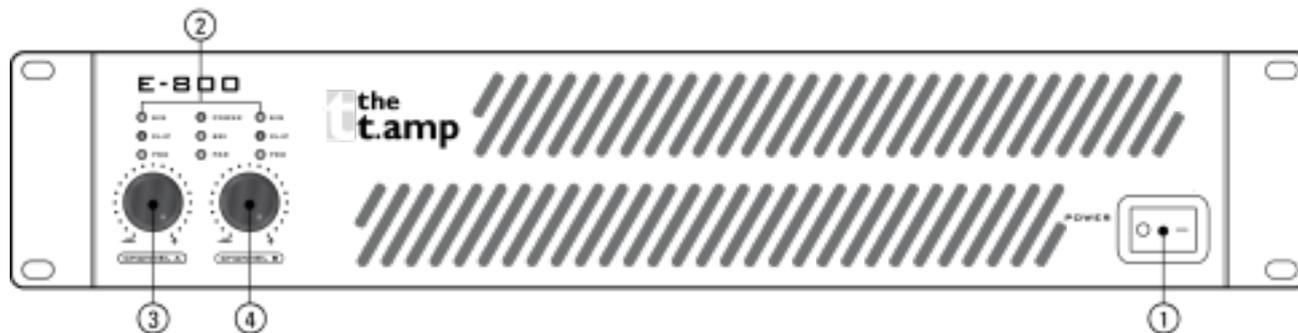
For detailed information related to this topic please refer to our Online Guide 'PA Speakers' (www.thomann.de).

Rack mounting

The device has been designed for rack mounting in a standard 19-inch rack; it occupies two rack units.

4 Connectors and controls

Front panel

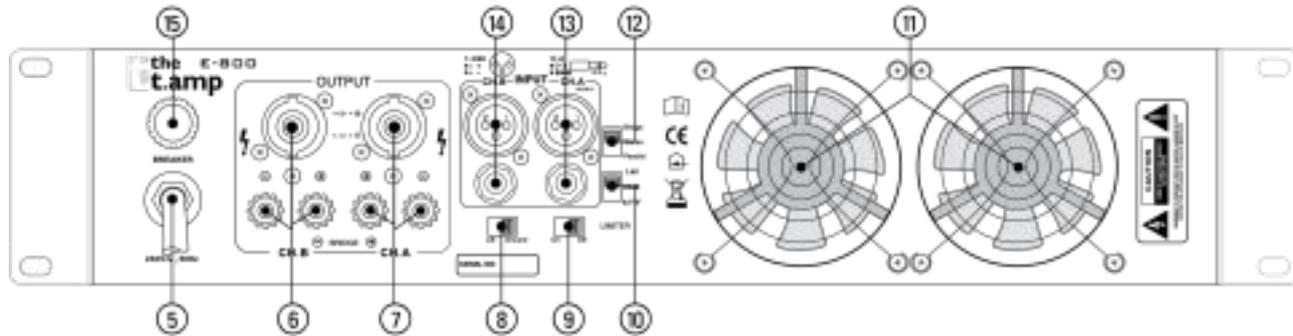


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1	POWER	Power on/off switch. Switches the device on and off.
2	LED panel	
	SIG	Indicates the presence of an input signal.
	CLIP	Lights under the following conditions: <ul style="list-style-type: none">■ Channel overdrive. In this case, reduce the volume until the LED turns off.■ Short-circuit at the output. Immediately turn off the device, fix the short-circuit and turn on the device again.
	PRO	Lights under the following conditions: <ul style="list-style-type: none">■ Three to five seconds after turning on or off when the device is in an unstable state.■ There is no loudspeaker connected.■ The temperature of the amplifier blocks has reached 85°C.■ One or more protection circuits have been triggered or the device is defective.

	POWER	This LED shows that the device is turned on.
	PAR	Lights when the device is operated in parallel mode.
	BRI	Lights when the device is operated in bridged mode.
3, 4	CHANNEL A, CHANNEL B	Volume control for the respective channels.

Rear panel



5 Power cord

6,7 OUTPUT
Output channel B, A

- speakON panel connector as loudspeaker output (1+, 2+: positive; 1-, 2-: negative)
- Screw terminals

8	Ground/Lift switch If there are hums due to a ground loop, you can use this switch to disconnect the protective earth connector from the signal ground of the device.
9	LIMITER Limits the output level such that maximum distortion is 5 %.
10	Selector switch for input sensitivity
11	Fan
12	Selector switch for operating mode <ul style="list-style-type: none">■ Parallel mode■ Stereo mode■ Bridged mode

13, 14	INPUT Input channel B, A <ul style="list-style-type: none">■ Female XLR panel connector■ ¼-inch (6.35-mm) jack (balanced or unbalanced)
15	BREAKER Resettable fuse. The fuse disconnects the amplifier when the power consumption is too high, for example due to a short-circuit. As soon as the problem is solved, the fuse will automatically be reset, the device will work again. Using the switch, the reset can be enforced.

5 Technical data

Power output (RMS)	Stereo, 8 Ω : 2 \times 350 W
	Stereo, 4 Ω : 2 \times 500 W
	Bridged, 8 Ω : 880 W
	Parallel, 2 Ω : 880 W
Frequency response, -1 dB	20 Hz...20 kHz
Input sensitivity	0.77 V / 26 dB / 1.4 dB
Class	H, 2 steps
Signal-to-noise ratio	> 100 dB (A-weighted)
Total harmonic distortion, 50 % of maximum power output	< 0.03 %
Inputs	Female XLR panel connectors, 1/4-inch (6.35-mm) jacks
Input impedance	20 k Ω (balanced), 10 k Ω (unbalanced)

Technical data

Outputs	speakON panel connector, screw terminals
Mains power supply	220 – 240 V ~ (AC), 50 Hz
Power consumption	1500 W
Dimensions (W × D × H)	482 mm × 375 mm × 88 mm
Weight	11.3 kg

6 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Disposal of your old device



This device is subject to the European directive 2002/96/EC.

Do not dispose the device with your normal household waste.

Dispose this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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