



Power Conditioner 12
power conditioner

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1 General information

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 and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:



Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this 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.
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 – danger zone.

2 Safety instructions

Intended use

This device is used to compensate for fluctuations in the mains voltage and for protection against overvoltage. 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.

Do not use the device if covers, protectors or optical components are missing or damaged.



DANGER!

Hazardous voltage

Even in standby mode, mains voltage is present on the outputs of the device and on the connected loads.

Prior to any servicing work on the connected loads, disconnect the mains plugs of the respective loads from the device.

Prior to any servicing work on the device, disconnect the mains plug of the device from the mains socket.



DANGER!

Electric shock caused by short circuit

Always use a properly insulated CEE cable to connect the unit to the 400 V mains grid. Do not modify the CEE cable or the CEE plug. Failure to comply may result in electric shock and risk of fire and loss of life. If in doubt, seek advice from a registered electrician.



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!

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.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

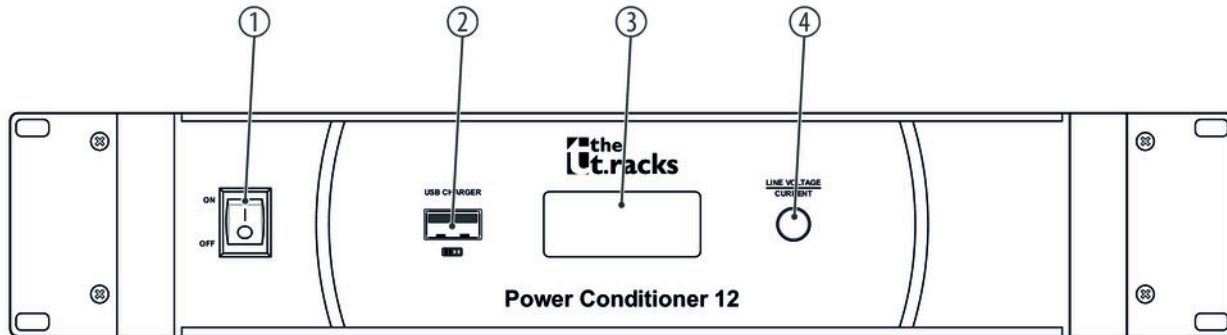
Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

3 Features

- Power distributor and voltage stabilizer
- microprocessor controlled toroidal autoformer
- 1 × Power Twist socket type TR1 for mains connection
- 4 × protective contact socket (F-type) for the power supply of further units
- 4 × overload protection (10 A) of the protective contact socket
- Safety shutdown at 265 V
- Display of voltage and current values (switchable)
- USB interface for loading and operating mobile devices (no data exchange)
- 19" rack-mountable (2 RU)
- Mains power cable included

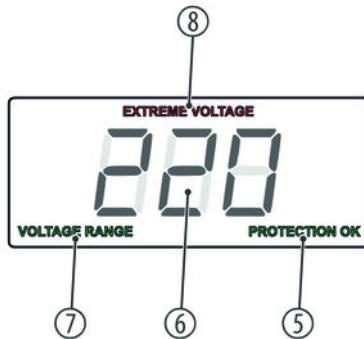
4 Connections and controls

Front panel



1	Main switch
2	<i>[USB CHARGER]</i> USB 2.0 port for charging and operating mobile devices. This port is not usable for data transmission.
3	Display
4	<i>[LINE VOLTAGE/CURRENT]</i> Button for switching voltage and current value display. By default, the voltage value is displayed. Press the button to display the current value. Press the button again to display the voltage value.

Display



5 Indicator '*PROTECTION OK*'

The indicator lights up green as long as the maximum load (10 A) is not exceeded. The indicator turns off when the maximum load (10 A) is exceeded. The overload protection triggers and locks off all outputs for the power supply.

6 Voltage and current value display

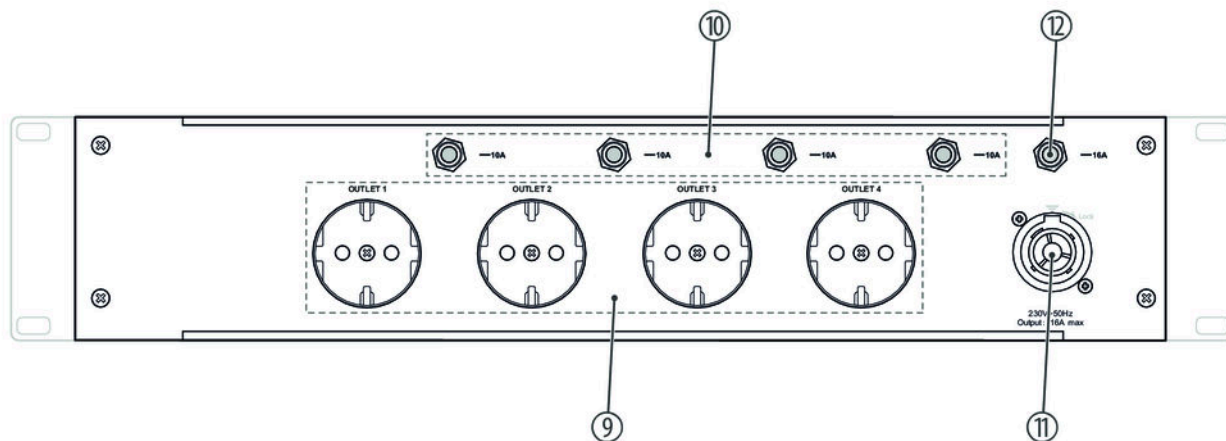
7 Indicator '*VOLTAGE RANGE*'

The indicator lights green when the input voltage is in the normal range. (190 – 253 V ~). The indicator flashes when the input voltage drops below 180 V ~.

8 Indicator '*EXTREME VOLTAGE*'

The indicator lights red when the input voltage is exceeding 265 V ~. The device switches off all outputs for the power supply.

Rear panel



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9	<i>[OUTLET 1] ... [OUTLET 4]</i> Outputs for the power supply of further units, designed as protective contact sockets (F-type)
10	<i>[10 A]</i> Overload protection (10 A) of the protective contact sockets If the maximum load (10 A) is exceeded, the overload protection triggers and locks off all outputs for the power supply.
11	Power twist socket for connection to the power supply
12	<i>[16 A]</i> Overload protection (16 A) of the Power Twist socket If the maximum total current load (16 A) is exceeded, the overload protection triggers and switches off the device.



If the overload protection has tripped, turn the connected external devices off and back on again. The overload protection of the Power Conditioner 12 is reactivated.

5 Technical specifications

Input connections	Voltage supply	1 × Power Twist socket (TR1-type)
	USB port	1 × USB 2.0
Output connections	Power supply for further devices	4 × protective contact socket (F-type)
Operating range		190 V – 253 V ~
Operating supply voltage		230 V ~ 50 Hz
Mounting properties		19 inch, 2 RU
Dimensions (W × H × D)		483 mm × 88 mm × 400 mm
Weight		15.7 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

Further information

Total load	16 A
Lamp connection	No
Voltage display	LCD

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 of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of 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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