

*Harley Benton*

Powerplant

Power supply

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## Table of contents

<b>1</b>	<b>General information</b> .....	<b>5</b>
	1.1 Symbols and signal words.....	5
<b>2</b>	<b>Safety instructions</b> .....	<b>7</b>
<b>3</b>	<b>Features</b> .....	<b>10</b>
<b>4</b>	<b>Installation and starting up</b> .....	<b>11</b>
<b>5</b>	<b>Connections and controls</b> .....	<b>13</b>
<b>6</b>	<b>Technical specifications</b> .....	<b>15</b>
<b>7</b>	<b>Protecting the environment</b> .....	<b>17</b>



# 1 General information



This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under [www.thomann.de](http://www.thomann.de).

## 1.1 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 document.

Signal word	Meaning
<b>DANGER!</b>	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.
<b>NOTICE!</b>	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
 A yellow triangular warning sign with a black border and a black lightning bolt symbol in the center.	Warning – high-voltage.
 A yellow triangular warning sign with a black border and a black exclamation mark in the center.	Warning – danger zone.

## 2 Safety instructions

### Intended use

This device transforms mains voltage into safety extra-low voltage, e.g. for the voltage supply of effects pedals. 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!**

#### **Risk of injury and choking hazard for children!**

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



#### **DANGER!**

#### **Danger to life due to electric current!**

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 when covers, safety equipment or optical components are missing or damaged.



### **DANGER!**

#### **Danger to life due to electric current!**

A short circuit could lead to a fire hazard and risk of death. Always use proper ready-made insulated triple-core mains cable with a safety plug. Do not modify the mains cable or the plug. In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.



### **NOTICE!**

#### **Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications" chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.



### **NOTICE!**

#### **Risk of fire due to installation of a wrong fuse!**

Using fuses of a different type than compatible with the device may cause a fire and seriously damage the device. Only use fuses of the same type. Observe the labelling on the device casing and the information in the "Technical data" chapter.



### **NOTICE!**

#### **Damage to the device due to high voltages!**

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.



**NOTICE!****Damage to connected effects pedals due to overvoltage or incorrect polarity!**

If unsuitable effects pedals are connected to the device, or if the output voltage and polarity on the power output of the device do not match the voltage specifications of the effects pedal, connected effects pedals can be damaged by overvoltage or incorrect polarity. If things go badly, overvoltage or incorrect polarity can also cause a risk of injury and fire. Only use the designated connection cables with the device. Make sure that the output voltage on the power output of the device is suitable for the effects pedal to be operated and has the correct settings where applicable, and that the polarity is correct. If in doubt, compare the voltage specifications on the effects pedal and the polarity (+/-) with the specifications in this manual and printed on the device. Voltage and polarity must always match.

**NOTICE!****Possible staining due to plasticiser in rubber feet!**

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

### 3 Features

The device is characterised by the following features:

- Multi-power supply with  $8 \times 9\text{ V}$  direct voltage outputs,  $1 \times 12\text{ V}$  direct voltage output and  $1 \times 12\text{ V}$  alternating voltage output
- Up to ten effects pedals can be powered simply, clearly and, above all, reliably.
- Isolated earthing
- Filtered outputs with short-circuit protection eliminate noise and humming
- High current strength for modern digital effects
- Including cable set and adapter

## 4 Installation and starting up

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

### Wiring

Create all connections while the device is not connected to the mains. Use the supplied cables for all connections.

The following cable types are available:

8 standard cables (1:1), plug-plug, length 55 cm, each to supply one effects pedal with 9 V  $\ominus$ , black/white, centre negative.





2 standard cables (1:1), plug-plug, length 35 cm, each to supply one effects pedal with 12 V  $\overline{\text{---}}$  or 12 V  $\sim$ , 1  $\times$  red, 1  $\times$  blue, centre negative.



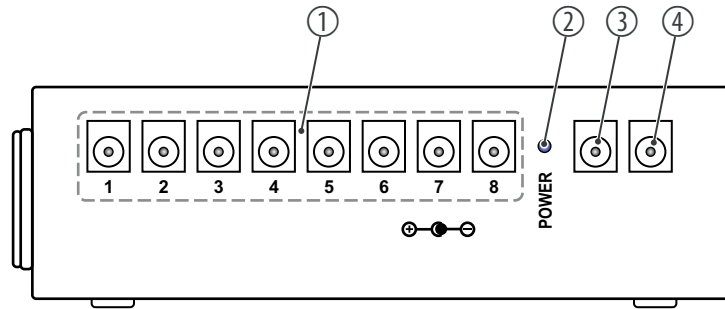
1 adapter cable with 3.5 mm phone plug (1:1), plug-socket, length 35 cm, to supply one effects pedal.



3 adapter cables plug-socket for changing the polarity (from centre negative to positive), length 20 cm.

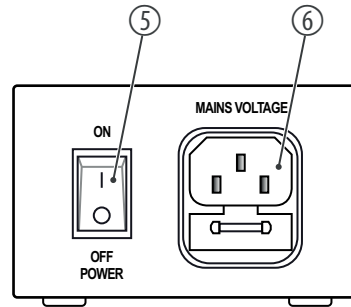
## 5 Connections and controls

### Connection side



- |   |  |
|---|--|
| 1 | Output sockets to supply effects pedals with a voltage of 9 V $\overline{\text{---}}$  |
| 2 | [POWER]   Blue indicator LED. Indicates that the device is connected to the power supply. The LED goes out a few seconds after the power supply of the device is switched off. |
| 3 | Output socket to supply effects pedals with a voltage of 12 V $\overline{\text{---}}$  |
| 4 | Output socket to supply effects pedals with a voltage of 12 V $\sim$   |

### Left side view



5 [POWER ON|OFF] | Mains switch to turn the device on and off

6 [MAINS VOLTAGE] | Rubber panel plug with fuse holder for power supply

## 6 Technical specifications

Input connections	Power supply	1 × rubber panel plug
Output connections	Effects pedal	10 × output socket
Supply voltage		230 V ~ 50 Hz
Fuse		5 mm × 20 mm, 0.1 A, 250 V, fast blow
Power consumption		1.54 W
Output voltage		8 × 9 V $\overline{\text{---}}$ , max. 500 mA in total 1 × 12 V $\overline{\text{---}}$ , max. 500 mA 1 × 12 V $\sim$ , max. 500 mA
Dimensions (W × H × D)		165 mm × 50 mm × 85 mm
Weight		1 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

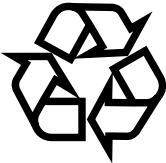
### Further information

9 V	Yes
12 V	Yes
18 V	No
Other secondary voltage	No
DC/AC current	AC/DC
Multi-power supply	Yes



# 7 Protecting the environment

## Disposal of the packing material



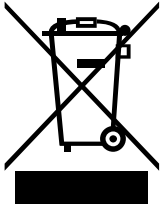
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on [www.thomann.de](http://www.thomann.de).

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

If your old device contains personal data, delete those data before disposing of it.



