

WOLFVONLANGA

HIGH END LAUTSPRECHER

Mains Adapter

Subject to technical changes

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1. INTRODUCTION

Dear Customer,

with the purchase of a WVL product you have made a very good decision, for which we thank you.

WVL - This name stands for top-quality products that are characterized by exceptional performance and continuous innovation.

We offer this modern technology and the reliable quality of our WVL products with an unbeatable price/performance ratio. We wish you a lot of fun with your new WVL product Made in Germany!

This guide is designed for multiple power supplies. The differences between the power supplies are highlighted in each section, specifying the type designation. Please also refer to the notes on page 10 and the type-related information in the „Technical Data“ section.

2. INTENDED USE

The power supply devices serve as potential-free power sources for the operation of small consumers and have been developed exclusively for use on our loudspeakers. The loudspeakers are connected via the safety jacks on the back of the device.

The power consumption of a connected consumer shall not exceed the maximum ampere count of the respective power supply output specified in the technical data.

Observe all safety instructions in this manual. These contain important information on how to handle the product.

Before commissioning the product, the entire user manual must be read carefully. It contains important information on the proper operation of the device. Please keep them for later use.

3. SCOPE OF DELIVERY

- Power Supply (PSU)
- Manual

4. PRODUCT DESCRIPTION

The power supply is used to power small consumers, whereby all power outputs can only be used depending on each other. For easy operation, the controls and displays are clearly arranged. The current value is set by a rotary knob.

The power supply is not short-circuit-proof.

The power supply corresponds to protection category I. It is only approved for connection to grounded power outlets and an alternating voltage of 230 V/50 Hz. Operation under adverse environmental conditions is not permitted. Adverse environmental conditions are:

- dampness or high humidity
- dust and flammable gases, vapours or solvents
- thunderstorms or thunderstorm conditions (strong electrostatic fields generally must be avoided)

Any use other than previously described is prohibited and may damage the power supply and the connection line, which is associated with risks such as short circuit, fire, electric shock, etc. The entire product must not be modified or modified.

This product complies with the applicable statutory national and European specifications. All company names and product names included are trademarks of their respective owners. All rights reserved.

5. EXPLANATION OF SYMBOLS



The triangle containing a lightning symbol warns against danger of electric shock or impairment of the electrical safety of the device.



An exclamation mark in a triangle shows important notes in these operating instructions that must be strictly observed.



The „arrow“ symbol indicates that special advice and notes on operation are provided here.



The product is intended for use in dry indoor rooms only; it must not get damp or wet.



This device is CE-compliant and meets the applicable European directives.



Earth potential



Grounding conductor connection; this screw must not be loosened.



The WEEE directive 2012/19/EU aims to prevent waste from electrical and electronic equipment and to reduce such waste through reuse, recycling and other forms of recovery.

6. SAFETY INFORMATION

The guarantee/warranty will expire if damage is incurred resulting from non-compliance with these operating instructions. We do not assume any liability for consequential damage! We do not assume any liability for property damage and personal injury caused by improper use or non-compliance with the safety instructions! In such cases the warranty/guarantee will expire.

Dear Customer,

this safety information serves not only to protect the product, but also your own safety and the safety of other persons. Therefore, read this chapter very carefully before taking the product into operation!

This power supply left the manufacturer's factory in a safe and perfect condition. To maintain this condition and ensure safe operation, the user must observe the safety information and warning notes in these operating instructions.

- The unauthorized conversion and/or modification of the product is prohibited for safety and approval reasons (CE).
- The power supply corresponds to protection category I. It is only approved for connection to an earthed mains socket (230 V/50 Hz). Ensure that the earth connection is not defective/interrupted. It would pose fatal danger in case of malfunction.
- The product is not a toy and must be kept out of the reach of children. Children cannot judge the dangers involved when handling electrical devices. Children may also change settings or push objects into the mains adapter's ventilation slits. There is danger to life from electric shock! Therefore, always operate the product out of the reach of children.
- The power supply must only be set up and operated in dry, closed indoor rooms. It must not get damp or wet. The mains adapter also must not be exposed to extreme temperatures, direct sunlight, vibration or mechanical stress.
- Only operate the power supply in moderate climate, never in tropical climate. For more information on acceptable environmental conditions, see the chapter „Technical Data“.
- Choose a solid, flat, clean and sufficiently large surface for the power supply.
- Do not use any open fire in direct proximity to the power supply and do not place any containers with liquids on or next to the power supply.
- If the power supply is taken from a cold into a warm room, condensation may form. This poses a risk of potentially fatal electrical shock. Therefore, allow the power supply to reach room temperature before connecting it to mains voltage or operating it.
- Before taking the power supply into operation and during operation, ensure that your hands, shoes, clothes, the floor and the device itself are dry.
- Disconnect the power supply's mains plug from the mains socket during thunderstorms to prevent damage from overvoltage.

- Ensure that the insulation of the power supply, the safety sockets, connected cables and mains cable is not damaged or destroyed. Do not use blank metal conductors.
- Use connection cables of sufficient size with intact insulation.
- Do not wear any conductive metal objects or jewellery like necklaces, bracelets, rings, etc. when operating the device.
- Never operate the power supply unattended.
- Protect the connected consumers from operating interference and overvoltage.
- Serial connection of several mains adapters may lead to voltages dangerous to touch that may be potentially fatal. In this connection, observe the low-voltage directive.
- Operation of the power supply generates heat. Never push any objects between the device's cooling fins and do not obstruct ventilation in any other manner. The mains adapter is mainly cooled by convection. Therefore, never cover the power supply.
- If it can be assumed that safe operation is no longer possible, the power supply must be turned off and secured against inadvertent operation. Unplug the mains adapter from the mains socket. It can be assumed that safe operation is no longer possible if:
 - the power supply shows visible damage,
 - the power supply no longer functions,
 - the power supply was stored under unfavourable conditions for an extended period or - if it was subjected to heavy stress during transport.
- Do not use the power supply as a charger.
- The power supply is not designed for application to humans and animals.
- Maintenance, adjustments and repairs must only be carried out by a specialist or a specialised repair shop.
- Live components may be exposed if covers are opened or parts are removed (unless this can be done without tools). There is danger to life from electric shock!
- The power supply must be disconnected from all power sources before it is opened. Unplug the mains adapter from the mains socket.
- Capacitors inside the power supply may still be charged after the power supply was disconnected from all power sources.
- Only fuses of the indicated type and rated current must be used. Use of mended fuses is not permissible. There is a danger of fire!
- On industrial sites, the accident prevention regulations of the association of the industrial workers' societies for electrical equipment and utilities must be followed.
- If the power supply is used at schools, training facilities, do-it-yourself and hobby workshops, it must be supervised by trained, responsible personnel.



Also observe the safety information in the different chapters of in the operating instructions of the connected devices.

If you are not sure about the correct operation or if questions arise which are not covered by the operating instructions, please do not hesitate to contact us or another specialist.

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7. CONNECTION CONTACTS AND CONTROL ELEMENTS

The WVL power supplies have up to 3 independently adjustable outputs. Depending on the design, the different outputs have their own display for current. The different outputs are indicated with colors or have a special connection:

- (1) Display for output current „A“ (2x black, 2x yellow)
- (2) Display for output current „B“ (2x black, 2x green)
- (3) Display for output current „C“ (2x black, 2x blue)
- (4) Rotary controller for output current „A“ (2x black, 2x yellow)
- (5) Rotary controller for output current „B“ (2x black, 2x green)
- (6) Rotary controller for output current „C“ (2x black, 2x blue)
- (7) Connection jacks for DC output (black = minus, blue = plus)
- (8) Connection jacks for DC output (black = minus, green = plus)
- (9) Connection jacks for DC output (black = minus, yellow = plus)
- (10) Connection socket for field current „A“
- (11) Connection socket for field current „B“
- (12) Rotary controller for output current *
- (13) Power switch
- (14) Operational control indicator (rock lights-up as soon as the device is switched on)
- (15) Fuse holder
- (16) Mains input socket
- (17) Cooling slots

* For the power supplies WVL-12639 up to serial number 400 internally (please contact us or contact another specialist).

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8. PUTTING INTO OPERATION AND USE

a) Connection and Operation

A low-power device mains cable with earth contact (not included) is required to connect the power supply.

- Place the power supply on a fixed and flat surface.
- The on/off switch must be in the „OFF“ or „0“ switch position.
- Plug the low-power device plug into the connector (16) on the back of the device and the power plug into a power outlet with 230 V/50 Hz AC.
- Insert the colour-matching plugs into the corresponding sockets.
- Connect the cables to the appropriate connectors of the speakers and secure them against accidental pulling out with the safety bar.
- Now turn on the power supply by pressing the on/off switch (13). The operating control indicator (14) lights up and signals the correct power supply of the power supply to you.
- The power supply is now ready for operation.

b) Always turn off the power supply before connecting or disconnecting cables.

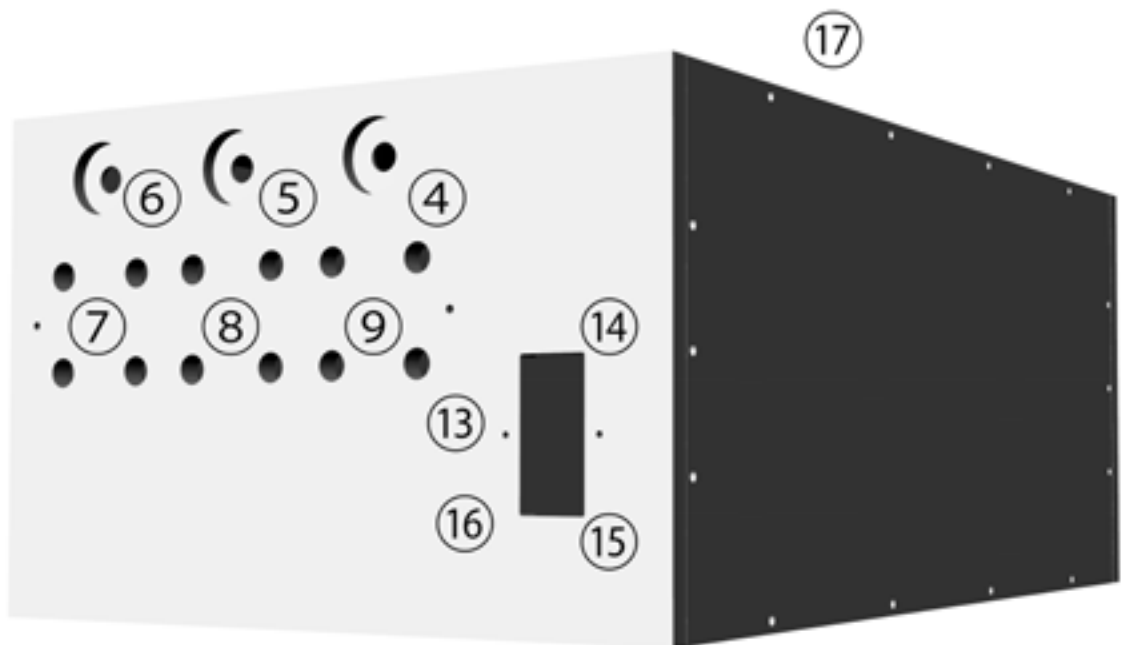
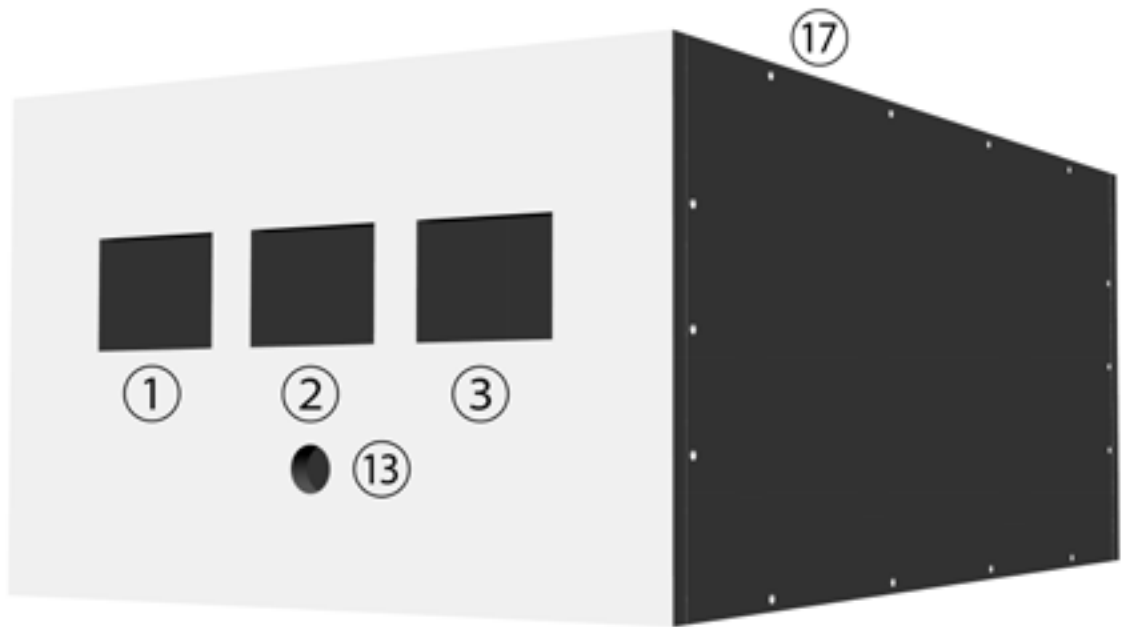
c) Setting the output current (all power supplies are pre-adjusted at the factory and do not need to be adjusted).

d) Setting the output current if necessary:

- Rotate the respective knob only gradually and slowly.
- If the controller is rotated clockwise, the current increases at the corresponding output. If the controller is rotated counterclockwise, the current decreases. Since the controller can be rotated several times by 360°, a fine-tuning of the exact value is possible without any problems.
- The current flowing at the corresponding output is displayed at the associated pointer instrument.

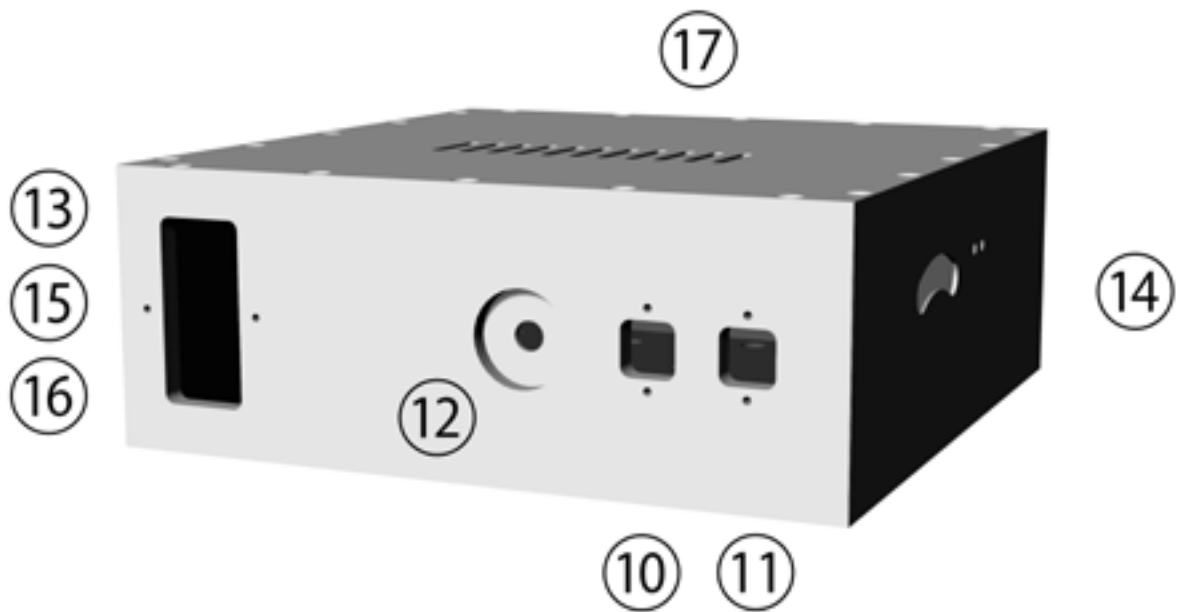
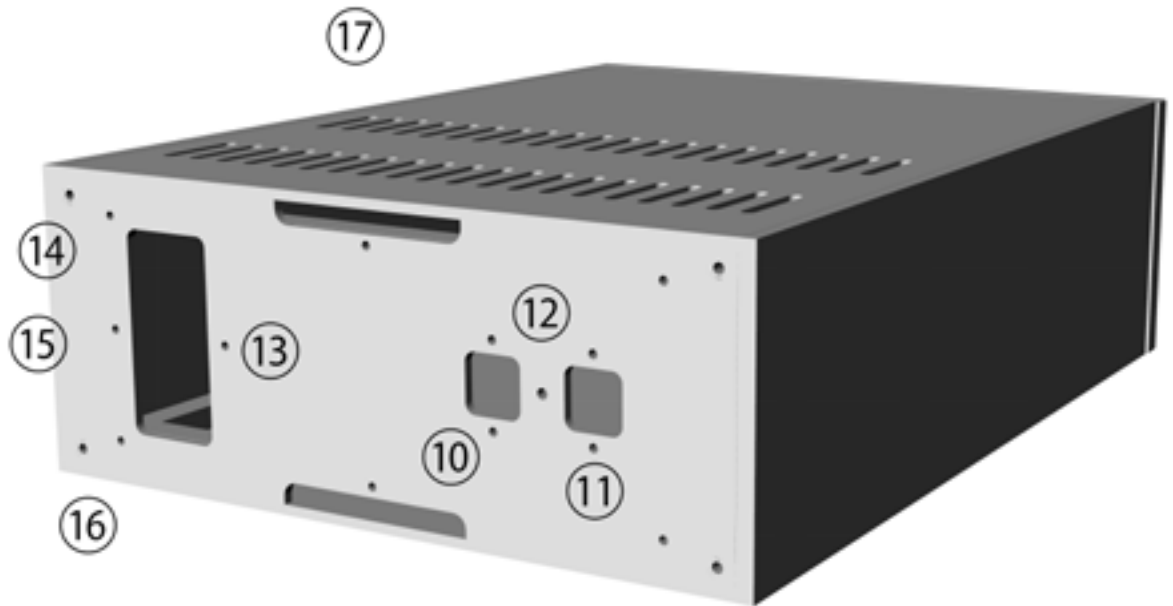
9. CONTROL ELEMENTS

a) PSU WVL-33221



9. CONTROL ELEMENTS

b) PSU WVL-12639



10. SPECIAL NOTE



Make sure that the power supply is always turned off when you connect or disconnect cable connections. Otherwise, sparks may damage the output jacks as well as the connecting cables and the power supply itself.

11. CLEANING AND MAINTENANCE

a) General care

Always turn off the power supply before cleaning. Externally, the power supply should only be cleaned with a soft, dry cloth or brush. Never use any aggressive cleaning agents or chemical solutions. They may damage the casing surface.

b) Fuse Replacement Attention!

First, turn off the power supply and remove all connection cables from the power supply. Then unplug the low-power device plug of the power supply and the mains socket.

Use your fingernail to pull the fuse drawer out of the rear mains input socket (16).

Replace the defective fuse(s) with a new fine fuse of the same type and with the same rated current (see also the section „Technical Data“).

Reseat the fuse drawer and press it firmly. Check the correct function of the power supply.

12. FUNCTIONAL PROBLEMS

The power supply is not working, the indicators are not lit.

- Check the power switch.
- Check that the low-power device connector is properly connected to the socket (16).
- Check the functionality of the mains connection (sockets, fuses, circuit breakers, etc.).
- Check that the correct mains voltage is present.

The connected consumers do not work.

- Check the technical specifications of the speaker.

13. DISPOSAL

At the end of its service life, dispose of the product according to the relevant statutory regulations.

14. TECHNICAL DATA

a) PSU WV-12639

Operating voltage 230 V/AC, 50 Hz (±5%)
Power consumption..... 80 VA max.
Output voltage A/B..... 35 V/DC max.
Output current A/B 1.5 - 3 A controllable
Residual ripple of..... ≤ 3 mV rms (rms = effective)
Main fuse (5 x 20 mm) T1.6A / 250V (slow trigger characteristic)
Dimensions (W x H x L)..... 232 x 96 x 390 mm
Weight..... 3 kg
Operating temperature +5 °C bis +40 °C
Ambient humidity..... max. 85% relative humidity (non-condensing)
Protection class..... I

b) PSU WV-23239

c) PSU WV-23216

d) PSU WV-33221

Operating voltage 230 V/AC, 50 Hz (±5%)
Power consumption..... 200 VA max.
Output voltage A..... 35 V/DC max.
Output voltage B 35 V/DC max.
Output voltage C..... 35 V/DC max.
Output current A..... 1.5 - 3 A controllable
Output current B..... 1.5 - 3 A controllable
Output current C 1.5 - 3 A controllable
Residual ripple of..... ≤ 3 mV rms (rms = effective)
Main fuse (5 x 20 mm) T3.15A / 250V (slow trigger characteristic)
Dimensions (W x H x L)..... 320 x 230 x 570 mm
Weight..... 20 kg
Operating temperature +5 °C bis +40 °C
Ambient humidity..... max. 85% relative humidity (non-condensing)
Protection class..... I

15. IMPRINT

This manual is a publication by Wolf von Langa, Rödla 54,
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