

USER MANUAL

English

PU450-2CH STEREO



SOUND
IMPRESS.

SoundImpress – because the best is just about good enough.

I N T R O D U C I N G

PU400-2CH

SoundImpress PU450-2CH Stereo

450WPC | Eigentakt | Powered by Purifi

This high-end class-D stereo amplifier, based on the Eigentakt technology from Purifi Audio, offers its users a powerful 425W per channel. Making this SoundImpress amplifier very capable and highly affordable. The SoundImpress brand stands for outstanding quality, timeless designs, and Dutch craftsmanship. This amplifier is built to last as it is extensively tested and manually assembled to ensure every last detail is checked.

- State of the Art class-D Amplifier
- Purifi Eigentakt technology
- High quality aluminum chassis
- Dimmable LED
- Balanced analog inputs (XLR)
- Banana-plug speaker connectors
- Assembled by hand in the Netherlands
- 5 year Warranty

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SoundImpress

PU450-2CH

SoundImpress PU400 Stereo Amplifier
2 x 450W | Eigentakt | Powered by Purifi

The SoundImpress PU450-2CH Stereo Amplifier is a high-end audio amplifier designed for superior sound quality and performance. Powered by two Purifi 1ET6525SA modules, this amplifier delivers exceptional clarity and low distortion, making it an excellent choice for audiophiles and home theater enthusiasts.

State of the Art class-D Amplifier
By SoundImpress

Thanks to high precision parts such as op-amps, high voltage gate drivers and high current MOSFETs, this amplifier can power almost any speaker. Be it a single subwoofer or your sophisticated 3-way tower. Thanks to the efficiency a high loop gain can be obtained, creating an unparalleled performance.

The Eigentakt implementation from Purifi is one the best amplifier technologies available. This class-D technology meets high standards and gives super performance at any playback level, regardless of load. This results in a stable, dynamic and realistic sound image, of any music genre. This amplifier will squeeze (with a proper music source and proper pre-amplification) all the dynamics out of your music without distortion, and at any volume.

Minimalistic but powerful

Packed within a minimalistic high quality aluminum chassis, this is more than just another powerful amplifier. Gone are the days of needing to have a massive power amplifier to have excellent sound and achieve some volume. The amplifier can deliver all its power from as low as 2 ohm impedance combined with low idle loss, very low distortion and noise levels!

In addition, this amplifiers has a nice appearance, an imposing look that takes away all the attention from your other home audio devices. A minimalistic design without compromising on performance or additions of cooling elements. Every amplifier comes with our own stamp of approval, our iconic "S"-logo, on the front plate. This branding ensures that you own a piece of real quality, that is built to last – with many more products to come. A small (dimnable) LED displays is implemented to show when the device is on or off.

Not only the case is puristic; the stereo amplifier features the input and outputs your speaker set-up deserves. The amplifier features XLR balanced inputs. Convenient banana-plug speaker connectors have been chosen as outputs.

This 450 watt class-D amplifier is ready to bring new life to any system!



SAFETY INSTRUCTIONS

SAVE THESE SAFETY REQUIREMENTS FOR FUTURE REFERENCE. HEED ALL WARNINGS AND SAFETY REQUIREMENTS MARKED IN THIS MANUAL AND ON THE AMPLIFIER.

CLEANING - Unplug this product from the electrical outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

VENTILATION - Slots and openings in the casing serve for ventilation and reliable operation of the product. They also protect the product from overheating. These openings must not be blocked or covered. These openings should never be blocked by placing the product on a bed, sofa mat or the like. Also, this product should not be placed in an enclosed space such as a bookcase or shelf unless proper ventilation is provided or the manufacturer's instructions are carefully followed.

POWER SOURCES - This product should be connected only to the power source indicated on the label. If you are not sure which power source is used in your home, contact the dealer or the local power company. The best way to disconnect the amplifier from power supply is to remove the power plug from the outlet. Unplug the power cord from the outlet if the unit will not be used for several months or longer.

OVERLOADING - Ensure that outlets, extension cords, and built-in additional connections are not overloaded as this may result in fire or electric shock.

OBJECTS AND LIQUIDS - Never push objects of any kind into this product as they may touch dangerous voltage points or short-circuit which may result in fire or electric shock. Never spill liquid on this product.

WARNING: Do not expose this amplifier to water, spills or splashes and do not place objects filled with liquids, such as vases, on the device. As with all electronic products, take care not to spill liquids into any part of the system. Liquids can cause malfunction and/or cause a fire.



WARRANTY TERMS

LIMITED WARRANTY - Sound Imports warrants this device for a period of five years after the original date of purchase against defects due to faulty workmanship or materials arising from Normal Use of the device. The warranty covers working parts that affect the function of the device. It does NOT cover cosmetic deterioration caused by fair wear and tear, or damage caused by accident, misuse or neglect. Any attempt to modify or take apart the device (or its accessories) will void the warranty.

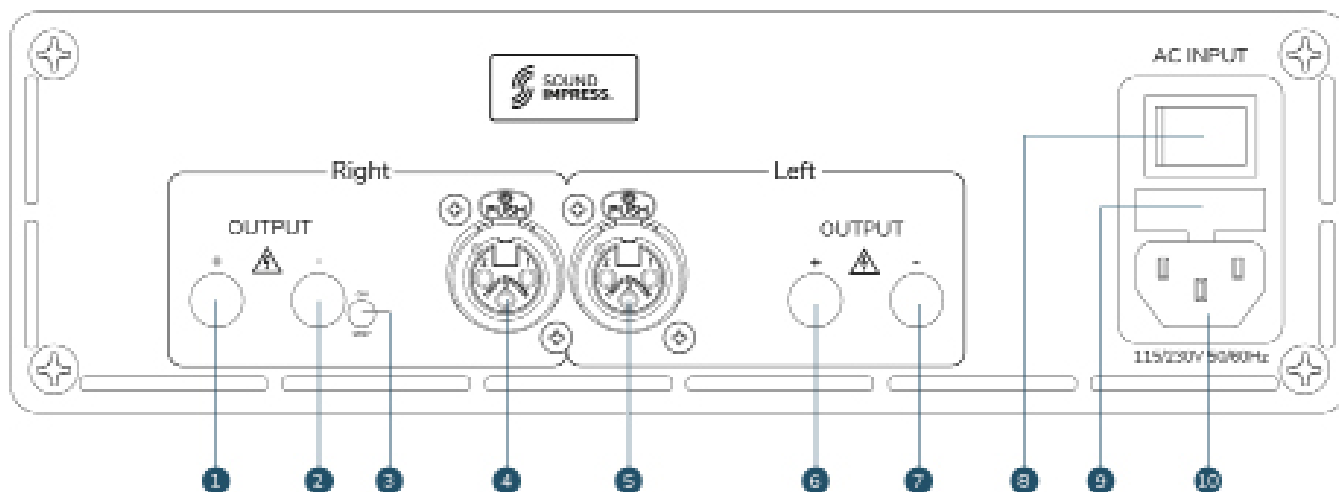
If you discover a defect, notify SoundImports during the warranty period. Claims under warranty must be supported by reasonable evidence that the date of the claim is within the warranty period. To validate your warranty, please keep your original purchase receipt together with these warranty conditions for the duration of the warranty period. Replacement products claimed under warranty are not entitled to renewed 5-year warranty coverage.

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SUPPORT - We are continuously working to enhance your experience with our products. If you have any comments, remarks or have found a defect, please contact us. If you have any problems with your amplifier please check this user manual. If this manual is not sufficient to troubleshoot your problem contact SoundImports support department. The latest datasheets and manuals can be found on our website. If you can't find the answer there, you can also contact us and we will be happy to help!



DISPLAY OF CONTROL FUNCTIONS



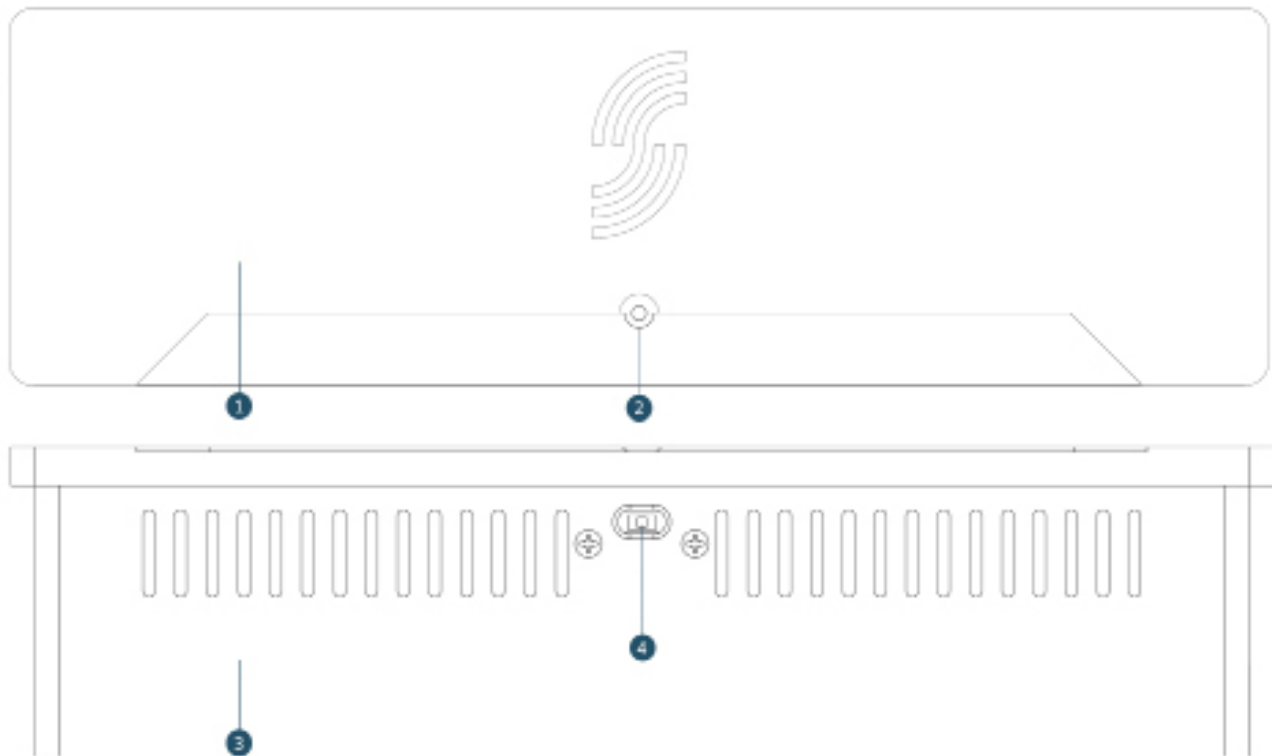
- | | | | |
|----|--------------------------|-----|-------------------------|
| 1. | Right channel output (+) | 6. | Left channel output (+) |
| 2. | Right channel output (-) | 7. | Left channel output (-) |
| 3. | On / standby switch | 8. | On / off switch |
| 4. | Right balanced input | 9. | Fuse tray ' |
| 5. | Left balanced input | 10. | Power input " |

' The fuse is supplied as standard. When replacing it, only use the original value.

" Attention: Risk of electric shock.



DISPLAY OF CONTROL FUNCTIONS

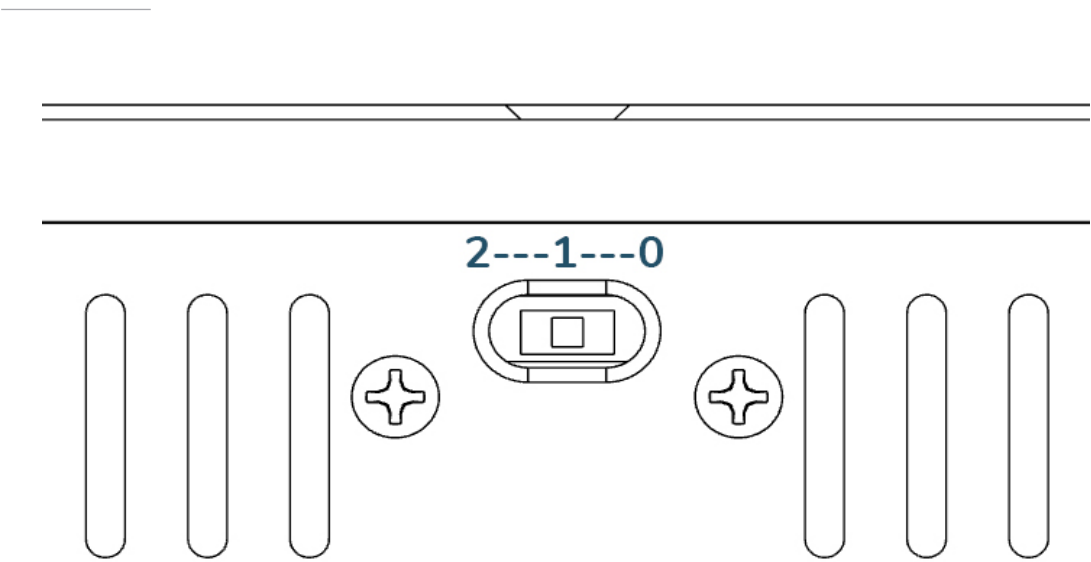


1. Front panel with engraved logo
2. Dimmable LED indicator
3. Bottom view
4. Switch for LED indicator '

' See the next page for an explanation of the LED switch.



DISPLAY OF CONTROL FUNCTIONS



- 0 --- LED OFF
- 1 --- Normal brightness
- 2 --- Max brightness



GET STARTED

START - Before turning on your new amplifier, first make all connections. Ensure that the volume on your pre-amplifier or playback device is set to a minimum.

CONNECTION - The PU450-2CH has two sets of speaker connections which are identical in function (parallel connection). Connect the Right speaker terminals marked “R +” and “R-” to the corresponding “+” and “-“ terminals of your designated right speaker. Repeat the same for Left speaker terminals and corresponding left speaker.

This amplifier will work with both balanced and unbalanced inputs.
For single-ended sources you can use a RCA to XLR cable or converter plug. The cable or converter should short signal ground (XLR pin 1) with negative signal input (XLR pin 3).

PLAY - Turn on the amplifier. Slowly increase the volume while playing some music.

ENJOY!



SPECIFICATIONS

Rated power output (RMS)	2x 450 watts at 4 ohms 2x 230 watts at 8 ohms 2x 510 watts at 2 ohms
Minimum load	2 ohms
Signal-to-noise ratio (SNR)	137 dB
Distortion	0.000053 % THD+N at 20-20,000 Hz, 4 ohms, 100 watts
Efficiency	> 96%
Frequency response	0 - 60,000 Hz
Input impedance	5.2 k Ω (14 dB)
Circuit Topology	Eigentakt
Amplifier classification	Class D
Speaker output channels	2
Input connection type	XLR
Speaker output connection type	Banana
Power requirements	110 / 230 VAC (symmetric supply +/-)
Power inlet connector	IEC C14
Dimensions (D x W x H)	260 x 78 x 325 mm
Case material	Aluminum





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