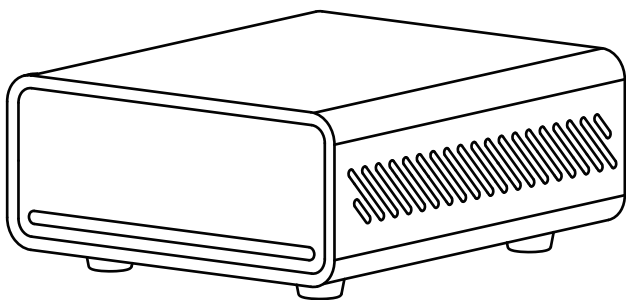




Fosi Audio



PSU20 User Manual

使用说明书

Version 1.0

Introduction

PSU20 Linear Power Supply

— Pure Power for Your Desktop HiFi System

Fosi Audio has carefully engineered the PSU20 high-performance linear power supply with a deep understanding of the core requirements of audio systems. Breaking away from the limitations of conventional switching power supplies, it features a high-grade 80W toroidal transformer with premium pure copper windings, delivering full isolation, low ripple, and ultra-low noise—providing your audio equipment with a clean and stable power foundation.

In the filtering and regulation stages, the PSU20 adheres strictly to HiFi-grade design principles. It incorporates high-quality audio-grade capacitors and a custom transformer to further enhance output purity and dynamic response, ensuring your downstream components can perform at their true potential.

To accommodate a wide range of desktop audio devices, the PSU20 is equipped with dual DC output ports supporting selectable voltages of 15V / 12V / 5V, along with an additional 5V USB power output. This allows it to simultaneously and precisely power devices such as DACs, preamplifiers, headphone amplifiers, and digital transports. Its compact and space-efficient design makes it easy to integrate into any desktop HiFi setup—without taking up unnecessary space, while delivering a noticeable improvement in sound performance.

Choosing the Fosi Audio PSU20 means choosing a stable, efficient, and ultra-clean power source for your audio system. We believe that cleaner power is the foundation of better sound.

Thank you for your trust and support. Fosi Audio remains committed to developing high-quality audio solutions, bringing the joy of exceptional listening experiences to every user.

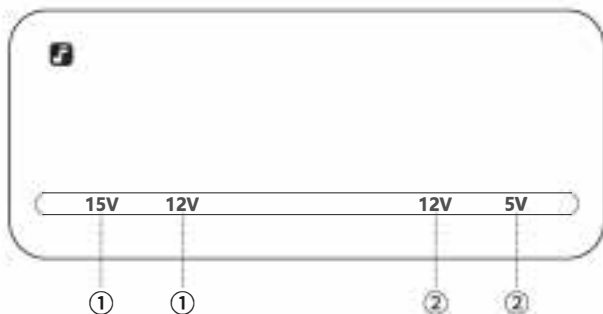


Quick Guide



Product Page

Product Overview

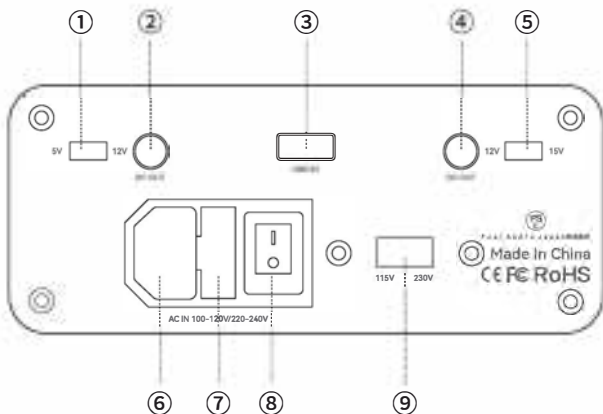


1. DC Output Voltage Indicator 1:

Selectable between 15V / 12V. Only one indicator will be lit at a time. The orange light indicates the currently selected voltage.

2. DC Output Voltage Indicator 2:

Selectable between 12V / 5V. Only one indicator will be lit at a time. The orange light indicates the currently selected voltage.



- ① DC 1 Voltage Switch: Select between 12V / 5V
- ② DC Output 1: DC power output with center-positive polarity 
- ③ USB Output: USB 5V / 1A power output.
- ④ DC Output 2: DC power output with center-positive polarity. 
- ⑤ DC 2 Voltage Switch: Select between 15V / 12V.
- ⑥ AC Power Input
- ⑦ Fuse Holder: Contains an internal fuse. If the fuse is blown, please replace it under the guidance of our customer support.

- ⑧ PSU20 Power Switch: Switch ON when toggled down, and OFF when toggled up.

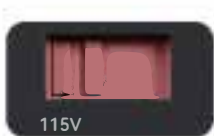


Power On

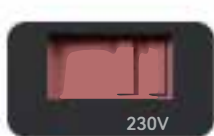


Power Off

- ⑨ AC Input Voltage Switch:
- 115V setting supports 100–120V input
 - 230V setting supports 220–240V input



100–120V



220–240V

Notes

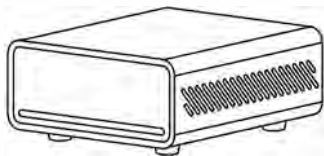
1. Before use, please confirm whether your local mains voltage is 100–120V or 220–240V, and set the AC Input Voltage Selector accordingly.

2. Do not connect any devices before confirming that all DC output voltages are set correctly, to avoid potential damage.

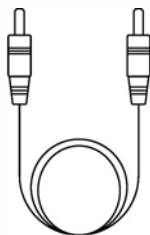
Specifications

Model	PSU20
Power Input	AC: 115V / 230V Note: • 115V setting supports 100–120V input • 230V setting supports 220–240V input
Power Output	DC 1: 12V / 15V (Rated Power: 20W)
	DC 2: 12V / 5V (Rated Power: 15W)
	USB: 5V / 1A (Rated Power: 5W)
Operating Temperature	-20 ~ 70°C (-4°F ~ 158°F)
Temperature Rise Test	Temperature rise of 25°C (77°F) at full load

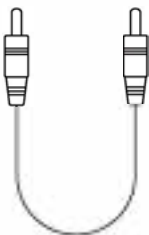
Package Contents



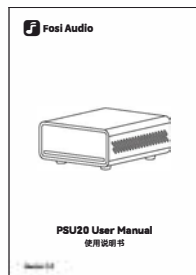
PSU20



120 cm DC to
DC Power Cable



30 cm DC to
DC Power Cable



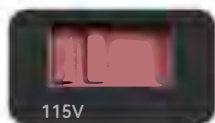
User Manual

Safety Instructions

1. Do not power on the unit or connect any devices before all connections are properly completed.
2. Check the AC voltage of your local power supply. Then locate the “AC Voltage Switch” on the rear panel of the PSU20 and set it to the appropriate voltage range.



220–240V



100–120V

3. Use the “DC Output Voltage Switch” on the rear panel to select the appropriate voltage for your connected device. After selecting, check whether the corresponding voltage indicator on the front panel is properly lit. If the displayed voltage matches your selection, connect your device to the corresponding DC output port using a power cable.



4. Check whether your device uses a center-positive DC input (inner positive, outer negative). This is usually indicated by a symbol like the one below. If you are unsure, please consult the device manufacturer. Do not use this power supply if the polarity is reversed, as it may damage your equipment.



FAQ

1. What devices can the PSU20 be used with?

The PSU20 provides three selectable output voltages: 5V / 12V / 15V, and is compatible with devices operating within the following current limits:

- 5V / up to 2.5A
- 12V / up to 2A
- 15V / up to 2A

The rated output power is:

- DC Output 1: 20W
- DC Output 2: 15W
- USB 5V Output: 5W

In practice, the PSU20 is designed with power headroom, allowing it to support devices that slightly exceed these ratings. Since audio equipment often operates with dynamic peak power demands, you can use it with confidence.

It is suitable for most DACs, preamplifiers and headphone amplifiers operating at 5V / 12V / 15V.

2. Can the PSU20 input voltage be switched?

Yes. The PSU20 supports two selectable input voltage ranges: 115V and 230V. Please set the correct voltage according to your local mains standard (100–120V or 220–240V) before use.

3. Why does the PSU20 run relatively warm?

Linear power supplies naturally generate heat during energy conversion. Under full load, the PSU20 may experience a temperature rise of approximately 25°C, which is normal.

Please ensure proper ventilation during use and do not cover the unit with fabric or other materials.

The PSU20 is equipped with a built-in fan at the bottom, which will automatically activate when the temperature reaches 50°C, ensuring safe operation.

4. Can the PSU20 remain powered on for long periods?

Yes, the PSU20 is designed for long-term continuous operation. However, we recommend turning off the unit if it will not be used for more than one week.

5. What are the specifications of the DC output cable?

The PSU20 comes with a standard DC power cable featuring:

- Outer diameter: 5.5 mm
- Inner diameter: 2.5 mm
- Polarity: Center positive (inner positive, outer negative)

Warranty and Maintenance

Fosi Audio pledges to give a 24-month limited warranty and support from the date of purchase. If you encounter any problem when using our product, please contact our support team at support@fosiaudio.com.

About Us

Fosi Audio designs and builds innovative audio products with all your music in mind. Great sound, simple but elegant designs, high-quality components, and truly useful features are what Fosi Audio pursues. We sincerely hope you can get as much enjoyment from our products as we've had to create them!

Our Website: www.fosiaudio.com

Facebook Page: www.facebook.com/fosiaudioglobal

Youtube Channel: www.youtube.com/@fosiaudio

Whatsapp: +86 13716612254

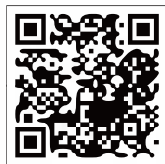
After-Sales Service and Technical Support Email:

support@fosiaudio.com

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



Contact Us