

# **PEDAL POWER**

# **AC**

## **User's Manual**

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# VOODOO LAB PEDAL POWER AC

## User's Manual

### Introduction

The Voodoo Lab Pedal Power AC is the finest power supply available for AC powered guitar effects and accessories. It's the only professional solution for powering vacuum tube overdrives and effects, MIDI footcontrollers, and high current digital processors--without cumbersome and noise inducing wall warts.

The Pedal Power AC provides four isolated outputs, two 9VAC and two selectable between 9 and 12VAC. Each output is short-circuit protected and completely isolated. This insures reliable operation, free of hum and noise.

Please take the time to read this entire manual before operating your Voodoo Lab Pedal Power AC. This will eliminate the possibility of damage from improper usage. You can also visit our web site at [www.voodoolab.com](http://www.voodoolab.com) for the latest information on this and other products.

The U.S. model (120V input) can operate from 50Hz or 60Hz mains to allow use with a step-down transformer in 50Hz countries.

### Unpacking

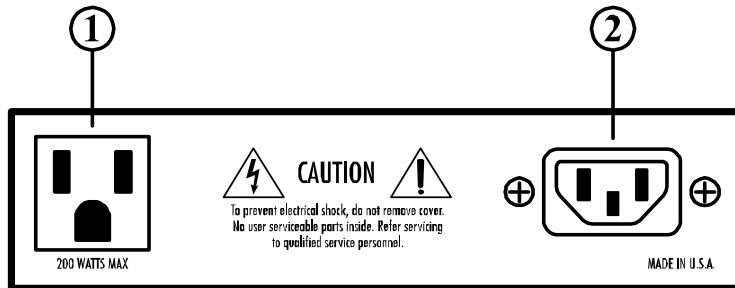
Your Voodoo Lab Pedal Power AC box should contain the following:

- Pedal Power AC system unit.
- Warranty card.
- AC mains line cord.
- AC power cables:
  - 5.5x2.5mm barrel (4) - red both ends
  - 5.5x2.1mm barrel (2) - one end black

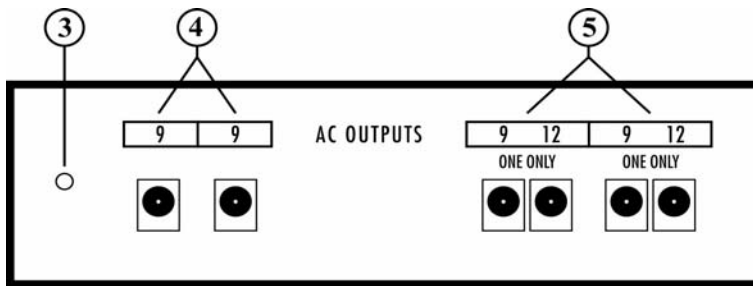
Please take a moment to fill out and mail your warranty card. This will register your warranty and allow us to notify you with updates and new product information. Don't worry, we respect your privacy and never sell our mailing list.

## System Unit Description

1. AC mains auxiliary. Note the 200 watt maximum rating.
2. AC mains power input jack. This is a standard “IEC-type” connector.



3. Power indicator. This LED indicates the Pedal Power AC system unit is operating.
4. 9VAC output jacks (2). Each output provides up to 600mA.
5. Selectable 9VAC/12VAC output jacks (2 sets). Use either jack from each set to select the correct voltage. Each output provides up to 1200mA.



## AC vs. DC

“DC” stands for Direct Current. This means that the flow of electricity is always in one direction. DC power connections will always have a polarity (like “center negative” or “tip positive”) because you need to specify which direction the electrical current should flow.

“AC” stands for Alternating Current. This means the flow of electricity alternates, first in one direction, then back the other way. Since it always goes in both directions, there is no polarity and the plugs can’t be wired backwards.

**CAUTION:** The Voodoo Lab Pedal Power AC should only be used with devices that require AC power. The device you’re trying to power should be clearly marked as needing 9VAC or 12VAC. If it isn’t, you need to verify its power requirements. Attempting to power a DC operated device with an AC power source can cause permanent damage!!

## Connections

The Voodoo Lab Pedal Power AC has four outputs and six output jacks. These accept barrel type connectors and have a 2.5mm center pin.

The two individual 9VAC outputs on the left will provide up to 600mA each.

The two pairs of jacks on the right will provide up to 1200mA each at either 9VAC or 12VAC. Select the correct voltage by using the corresponding jack. You can't use both 9VAC and 12VAC from the same pair at the same time. It won't work. Don't even try.

## Cables

Two different cable types are provided with the Pedal Power AC. The most common type has *red* connectors on both ends. The other type has *red* and *black* connectors.

*Red* connectors are 2.5mm center and *black* are 2.1mm. Connect *red* ends to the Pedal Power AC.

Most AC powered devices will also use the *red* 2.5mm plugs, however a few use *black* 2.1mm (the industry standard is to use 2.5mm for AC and 2.1mm for DC).

Since the *red* plug has a hole to accommodate the 2.5mm pin, it will also fit over the smaller 2.1mm. Don't do this! It will appear to work, but since the connectors do not mate snugly, the connections will be unreliable.

How can you tell which to use? Easy! Try the smaller *black* end first. If it fits, use it. If it doesn't, use a *red* one.

If you need additional cables they are available directly from Voodoo Lab. Visit [www.voodoolab.com/cables](http://www.voodoolab.com/cables) for more information.

## Operation

Using the above information, connect the AC power cables between the Pedal Power outputs and the power jack on each device. Now connect the AC line cord from the AC mains power input on the Pedal Power AC to a suitable outlet. The red LED power indicator should light telling you that it's working properly.

## Power Requirements

Generally, the power requirement marked on the device matches the manufacturer's supplied adapter. This does not indicate the actual current used, only the maximum available from the adapter. Often the same adapter is used for many different products.

For example, the Line6 modeling pedals are marked 1200mA. In fact, all models as of this writing draw less than 200mA.

As long as your device requires AC at 9V or 12V, just try it. You won't damage anything.

## **Protection**

Your Pedal Power AC is designed to be fault tolerant. This means that if you try to power a defective device or use a bad cable, it will simply turn off that output until the problem is corrected. Similarly, if you try to power something that requires more current than the Pedal Power AC can provide, it switches off only that output. As they say, “the show must go on!”

## **Frequently Asked Questions**

Why doesn't my effect power up?

Many guitar effects are switched on by plugging into the input jack. Check this first.

I bought my Pedal Power AC in the U.S. and I will be touring Europe, will it work there?

We build different versions of the Pedal Power AC for each mains input voltage. The U.S. model will only work from 120V. You will need a step-down transformer to use it in Europe at 240V.

Can the Pedal Power AC fit in a rack?

The height of the Pedal Power AC was intentionally kept to 1-3/4 inches so that it can fit in one rack space. This allows you to mount it on a sliding shelf with some effects.

What if I need a special cable?

Contact Voodoo Lab for additional or custom cables. For more information, visit [www.voodoolab.com/cables](http://www.voodoolab.com/cables).

What is a toroidal transformer and why does my Pedal Power AC have one?

Power transformers create a magnetic field that can induce hum and noise in your effects. A toroidal transformer has a specially designed core that greatly reduces this field. The Pedal Power AC uses this type of transformer so that your pedal board is quiet.

## Specifications

Input: IEC connector

Check label on base for input power:

- 100V 60Hz (Japan)
- 120V 60Hz (North America)
- 230V 50/60Hz (Europe/Australia)

Outputs: 5.5x2.5mm barrel connectors

Two 9VAC at 600mA

Two selectable 9/12VAC at 1200mA

Short circuit and overcurrent protected.

Physical: 6" wide x 3.4" deep x 1.75" tall (152x86x45mm)

Weight 2 lbs. (0.9 kg)

Special: Toroidal power transformer.

Auxiliary AC outlet, 200 watts max.

## **Warranty**

### **North America Only**

Voodoo Lab warrants this product against defects that are due to faulty material or workmanship for a period of five years from the date of original retail purchase. This warranty does not include damage to the product resulting from accident or misuse. This warranty is given to the original purchaser only and it is not assignable to any other person.

If the product should become defective within the warranty period, Voodoo Lab will repair it or replace it free of charge, provided it is returned freight prepaid to Voodoo Lab with a valid RMA (return material authorization) number.

This warranty shall not apply to any goods that have been repaired or altered by anyone other than the manufacturer. There are no warranties which extend beyond the terms described herein.

Should you experience any difficulty with this Voodoo Lab product, contact us as described below. If it is determined that the product must be returned to the factory for repair, you will be issued an RMA and given shipping and packaging instructions.

### **Outside North America**

Regions outside North American please contact your country's distributor for warranty information.

### **How to Reach Us**

You can reach us by any of the following:

Tel: 707 545 0600

Fax: 707 545 9777

Mail: Voodoo Lab

3165 Coffey Lane

Santa Rosa, CA 95403

Email: [info@voodoolab.com](mailto:info@voodoolab.com)

Website: [www.voodoolab.com](http://www.voodoolab.com)