

# ACCEL

## FX POWER SOURCE 12



# USER'S MANUAL

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## **What's Included**

- (1) Accel FX Power Source 12 Power Supply
- (1) User's Manual
- (1) AC Input cord
- (2) 7.9" [20cm] Line 6 Converter Cables
- (2) 19.7" [50 cm] Negative Center Output Cables
- (10) 27.5" [70 cm] Negative Center Output Cables
- (1) Power Supply Mounting Template
- (4) M4 x 8 mm Mounting Screws

## ***Introduction:***

Your Accel FX Power Source 12, Twelve Output Power Supply is designed with 2 high efficiency toroidal design transformers (the first to power outputs 1-8 and the second to power outputs 9-12). Each of the 12 outputs are fully isolated, regulated and filtered with over voltage protection.

The all-aluminum anodized enclosure dissipates the heat rapidly and keeps components within proper operating temperature.

Our FX Power Source 12 mounts conveniently currently onto our Accel XTA21 pedal boards with only three M4 mounting screws (supplied).

The FX Power Source 12, powers 9V, 12V & 18V effects pedals. While there is 1 adjustable output (5V-9V), 3 selectable outputs (9V or 12V), 1 selectable output (9V or 18V) and 1 selectable output 9V, 12V or 18V), 9V's are available on all outputs to work with the majority of the pedals on the market. Outputs 7-12 are rated at higher milliamps (mA's) for DSP (digital signal processing) pedals, loop switchers and analog devices (pedals, etc..) that require more mA's.

**Read all warnings, cautions and operating instructions before using this product.**

## **General information: (Quick View)**

### **9V power options:**

#### **Outputs: 1-12**

Designed to handle every 9V pedal on the market that requires 1mA -550mA.

#### **Outputs 1 - 6**

An effects pedal that has the option of being powered by a 9V battery can be powered by any outputs 1-6 set to 9V.

#### **Outputs 7– 12**

Outputs 7 thru 12 are designed for the higher current 9V effects pedals and switchers out on the market.

### **12V power options: Outputs: 3, 4, 5, 12**

When outputs 3, 4, 5 are switched to 12V, these outputs are designed to accept BOSS ACA type pedals and some digital modeling pedals that require 60mA or less. When output 12 is switched to 12V, this output is designed to provide power to 12V pedals that require 400mA or less.

### **18V power option: Outputs 6, 12**

When output 6 is switched to 18V, this output is designed to provide power to 18V pedals that require 50mA or less.

When output 12 is switched to 18V, this output is designed to provide power to 18V pedals that require 250mA or less.

### **Low Battery Simulation option:**

**Output 2** can be adjusted from 9V down to 5V to be used to simulate a low battery which comes in handy if you have older transistor based distortion and fuzz pedals.

### **Negative center polarity & positive center polarity barrel jacks.**

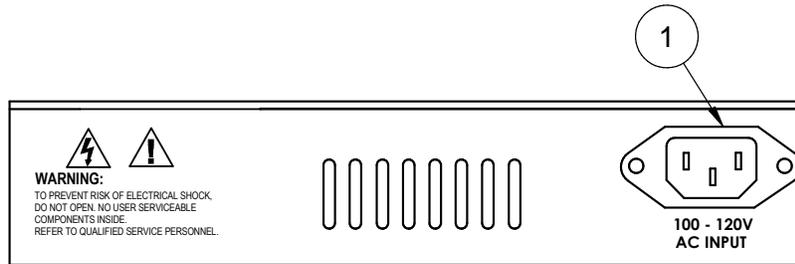
Most pedals on the market are designed with a “negative center” barrel jack. However there are a few pedal manufacturers out there that have positive center barrel jack designs. You can usually verify if the pedal is negative center (by far the most common) or positive center by simply flipping the unit over and looking at the label on the bottom of the unit. If the polarity is not shown, then consult the effects pedal manufacturer’s user’s manual or call their customer or technical support number.

For those manufactures designs which are the exception and use a positive center polarity barrel jack, a polarity converter cable will need to be purchased.

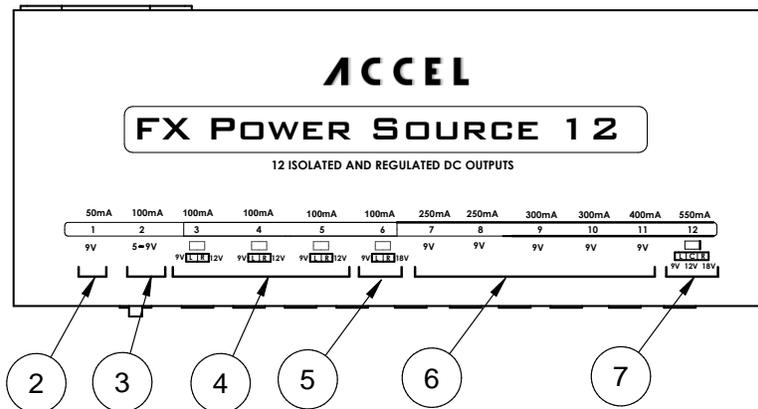
**Read all Warnings & Cautions before operating your  
FX Power Source 12 Power Supply**

1. Keep these instructions – The safety and operating instructions should be retained for future reference.
2. All warnings, cautions and instructions should be adhered too for safe operation of your FX Power Source 12 power supply.
3. Follow all operating and use instructions for safe operation of this unit.
4. **WARNING!!!** This Power supply is designed to operate at 110-120V AC Only! Do not plug into a 220- 240V AC outlet! Or risk of shock resulting in serious injury or death may occur.
5. **WARNING!!!** The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
6. **WARNING!!!** To reduce the risk of fire or electric shock, do not expose this power supply to rain or moisture. The unit should not be exposed to liquids of any kind. Any objects or containers filled with liquids, such as drinks or beverages shall not be placed on top of or near the unit.
7. **WARNING!!! If you are mounting into a surface thicker than .125" [3.18mm] or thicker** a longer screw may be required. Remember that Max protrusion depth into the power supply must be no more than .250" [6.35mm]. If this warning is not heeded, the presence of non-insulated “dangerous voltage” within the product’s enclosure may be of sufficient magnitude to constitute a risk of electric shock.
8. **WARNING!!!** Do not defeat the safety purpose of the grounding plug. A grounding plug has two blades and a third grounding prong. The grounding prong is provided for your safety.
9. **CAUTION!!!** The exclamation with arrowhead symbol within a equilateral triangle is intended to alert the users to the risk of damage to the FX Power Source 12 power supply if cautionary instructions are not followed.
10. **CAUTION!!!** To prevent risk of overheating or damage to the FX Power Source 12 power supply. **Do Not Block any ventilation openings!** The ventilation should not be impeded by covering the ventilation openings with items such as, tape, fabric, Velcro or any potentially flammable material.
11. **CAUTION!!!** To prevent risk of overheating or damage to the Power Source 12 power supply. Mount per the FX Power Source 12 Mounting Instructions!
12. Clean only with a dry cloth.
13. Do not install near any heat sources that produce heat.
14. Protect the power cord from being walked on or pinched. Especially near the plugs, convenience receptacles, and at the point where they exit from the unit.
15. Follow all instructions and recommendations regarding attachments/ accessories specified by the manufacturer.
16. Only use this unit as prescribed and specified by the manufacturer to power effects pedals.
17. Unplug the unit during lightning storms or when unused for long periods of time.
18. Refer all servicing to qualified personnel. Service is required when the power supply has been damaged in any way – such as power supply cord or plugs damage; if any liquid or foreign objects have gotten inside the unit; if it has been exposed to rain or moisture; has been dropped; or does not otherwise operate normally.
19. **Caution:** Do not plug devices (such as effects pedals) in until you have verified the applicable output is rated for the matching voltage of your device or set to the correct voltage of your device. If you do not set the correct voltage to match the voltage on your device damage may occur to your device.

## Component Description Drawings

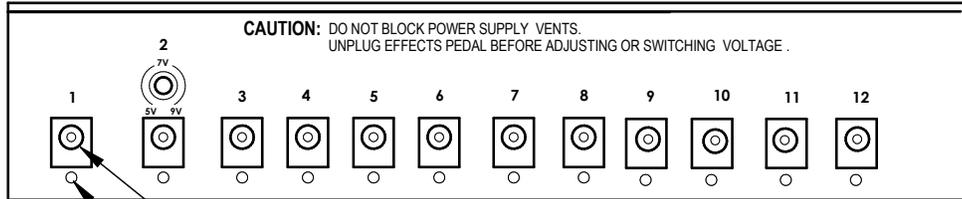


- (1) AC Power Input Jack:  
AC Power Cord supplied.



- (2) Output 1: 9V
- (3) Output 2: Adjustable Output:  
Adjustable from 5V to 9V
- (4) Output: 3-5: Switchable Outputs 9V or 12V's
- (5) Output: 6: Switchable Output 9V or 18V's
- (6) Output: 7- 11: High Current 9V outputs.
- (7) Output: 12: High Current Switchable Output 9V/12V/18V

## Component Description Drawings (Continued)



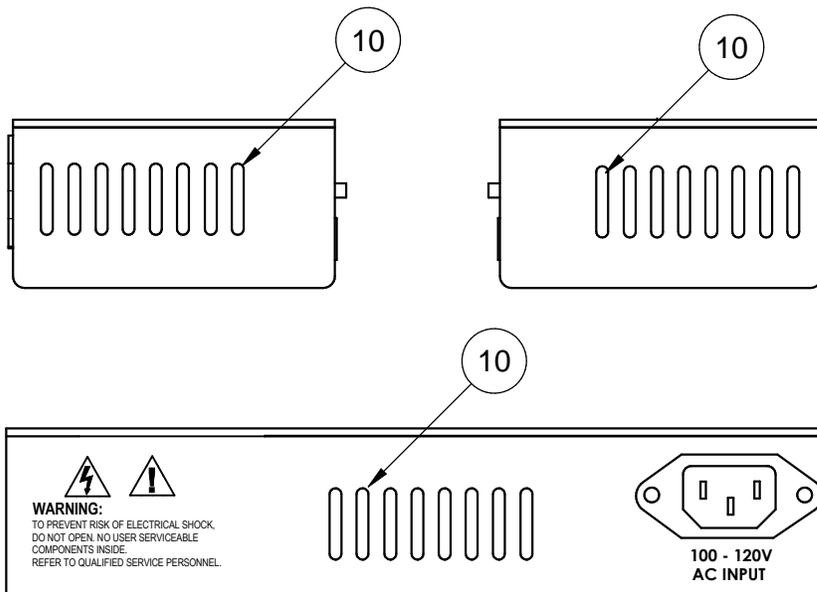
8 12 PLACES

9 12 PLACES

(8) Output Jacks (“negative center” barrel)

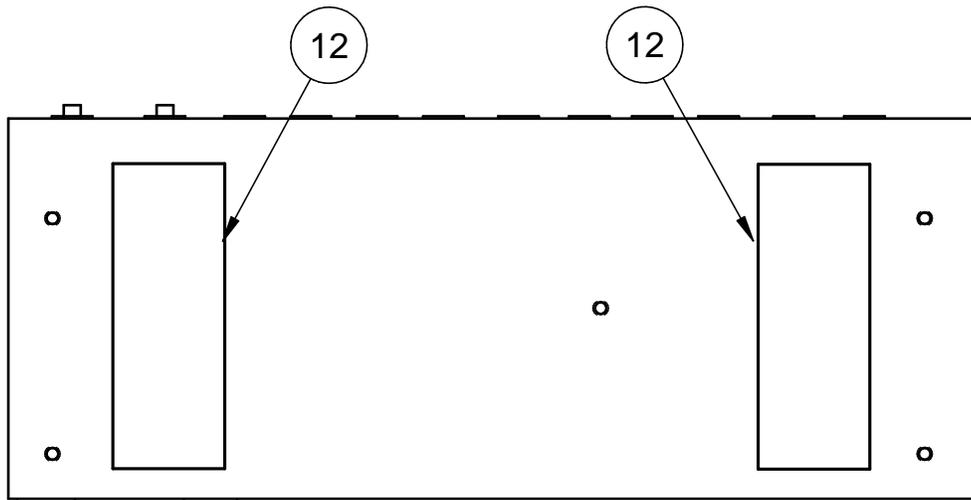
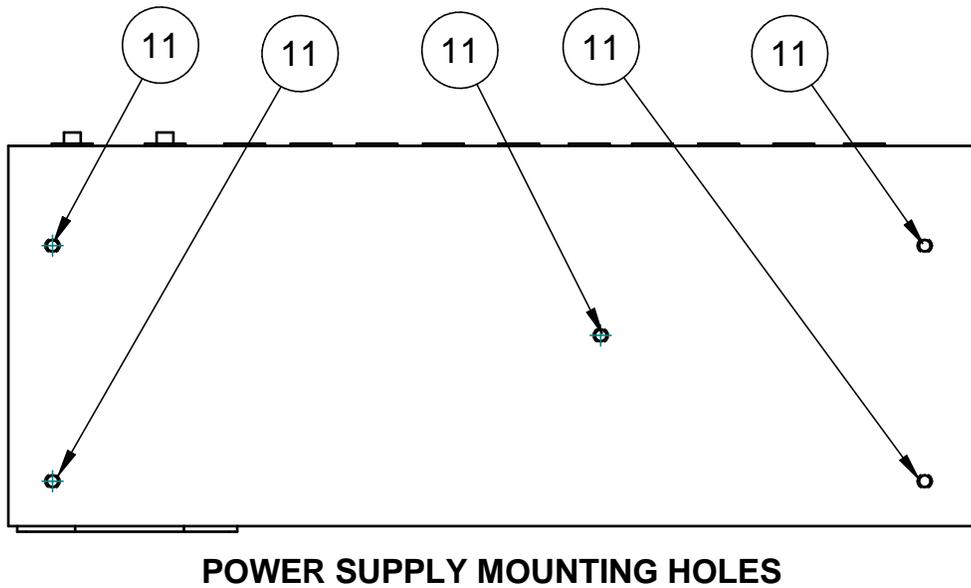
(9) Power good indicators for each output.

**Caution: Do not plug devices (such as effects pedals) in until you have verified the applicable output is rated for the matching voltage of your device or set to the correct voltage of your device.**



(10) Air Vents

## Component Description Drawings (Continued)

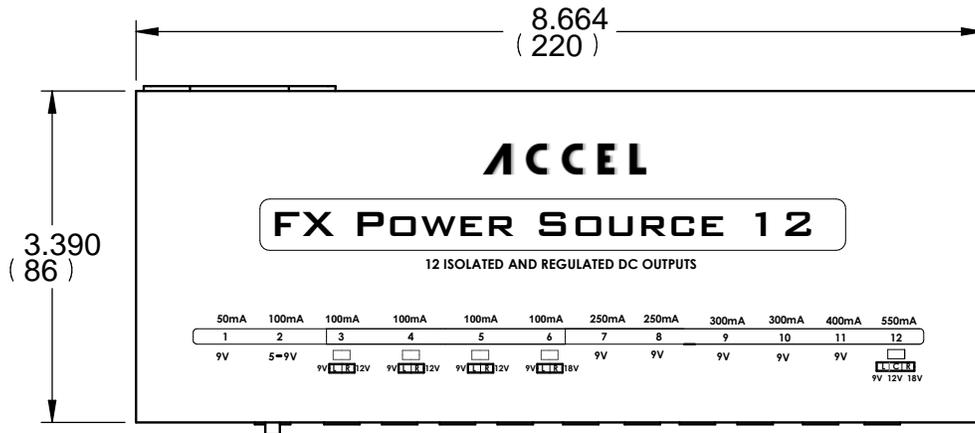
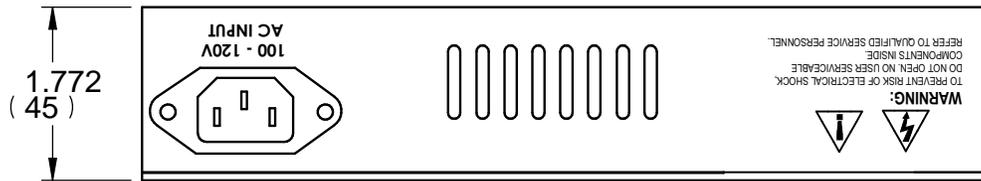
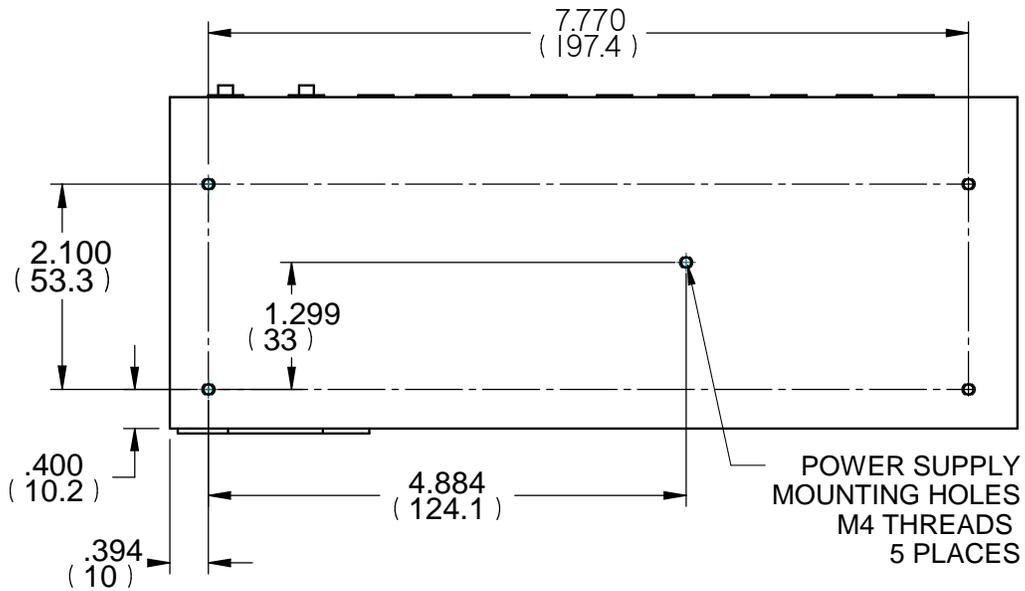


### ALTERNATE MOUNTING: USING 3M DUAL LOCK STRIPS

**3M DUAL LOCK** was designed as an alternative to hardware mounting. Once locked in place. You will either need to pry the power supply out "at an angle" with strong hands or a pry type tool, unless you are a gorilla.

- (11) Power supply customer mounting holes
- (12) Alternate 3M dual lock mounting.

**Dimensional Drawing:**



**INPUT:**

- Detachable AC cord

Country	Input AC Volt
North America	120V/60Hz
Japan	100V/60Hz

**OUTPUTS:**

- All Outputs are completely isolated from each other.
- All Outputs are regulated.
- Over current protection on each output.

O/P	DC Voltage	Current
1	9V	50mA
2	5V-9V	180mA-100mA
3-5	9.6V/12.4V	100mA/ 60mA
6	9V/18V	100mA/ 50mA
7,8	9V	250mA
9	9V	300mA
10	9V	300mA
11	9V	400mA
12	9V/12V/18V	550mA/400mA/250mA

**Circumstances for users who have up to 6 higher current 9V pedals that need just a little more power from an output:**

- 1) As long as combined effects pedals current of outputs 1-6 do not exceed 300 mA, then outputs 7 and 8 can provide up to 350mA's each.
- 2) As long as combined effects pedals current of outputs 11 & 12 do not exceed 800mA's, then outputs 9 & 10 can provide up to 350mA's each.
- 3) As long as combined effects pedals current of outputs 9, 10 & 12 do not exceed 1000mA's, then output 11 can provide up to 500mA's.

**DC Cables:**

Length	Qty.	Plug Type
<b>Output Cable</b> 27.5" [70cm]	10	5.5x2.1mm Right Angle /-Straight <b>Negative Center</b>
<b>Output Cable</b> 19.7" [50cm]	2	5.5x2.1mm Right Angle /-Straight <b>Negative Center</b>
<b>Converter Cable</b> <b>Line 6 Modeling</b> <b>Pedals</b> <b>(Except POD Models)</b> 7.9" [20cm]	2	5.5x2.1mm Female 5.5x2.5mm Male <b>Negative Center</b>

## FX Power Source 12 Mounting Instructions

### **Mounting pattern template:**

For those who already have a different pedal board other than our Accel applicable XTA models of pedal boards that fit this power supply. A mounting template and our standard M4 thread mounting hardware have been provided.

**(The following “Warning” & “Cautions” has been mention before in the Warnings & Caution pages and now reemphasized for you safety)**

### **Warning!!!**

If you are mounting into a surface thicker than .125" [3.18mm] or thicker, a longer screw may be required. Remember that Max protrusion depth into the power supply must be no more than .250" [6.35mm].

Do not drill into power supply.

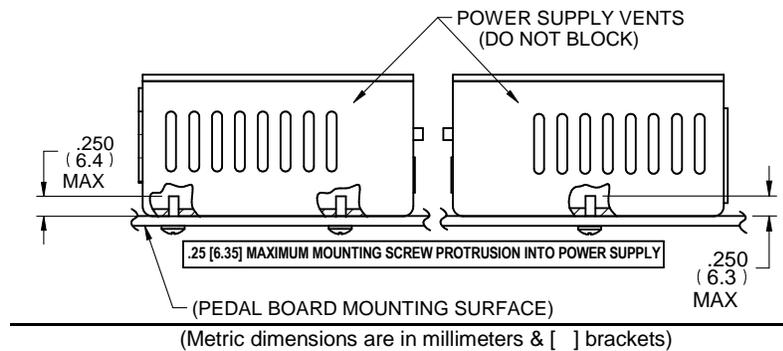
If these warnings are not heeded electrical shock or death may occur.

### **Caution!!!**

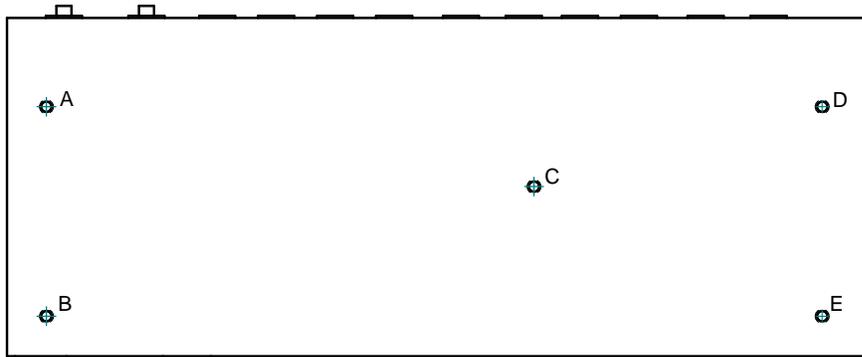
Do not do not block air vents.

Do not mount in an area where no air circulation is present.

Do not mount in an enclosure with no ventilation

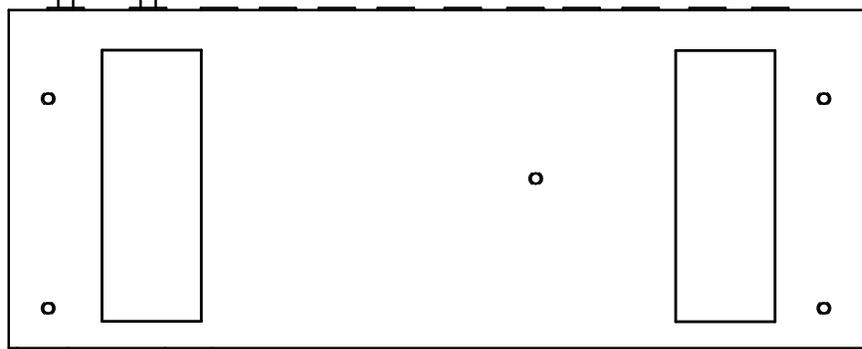


## **FX Power Source 12 Mounting Instructions** (Continued)



**Any of the following 6 hole combinations can be used to screw mount the FX Power Source 12 securely:**

- |            |            |            |         |
|------------|------------|------------|---------|
| 1) A, B, C | 3) A, C, E | 5) A, B, E | 7) A, E |
| 2) A, B, D | 4) B, C, D | 6) B, D, E | 8) B, D |



### **ALTERNATE MOUNTING: USING 3M DUAL LOCK STRIPS**

**3M DUAL LOCK** was designed as an alternative to hardware mounting. Once locked in place. You will either need to pry the power supply out "at an angle" with strong hands or a pry type tool.

## **Warranty**

### **Limited 5 Year Warranty**

This warranty covers any defects or malfunctions in your new Accel FX Power Source 12 Power Supply. This a 5 year warranty for the original registered purchaser. Accel will fix or replace any defective units within the first 5 years from the purchase date. Fixing or replacing the unit will be at Accel's discretion. Any problem that is caused by abuse, misuse, or an act of God (such as a flood) are not covered. In order to be eligible for service under this warranty you must retain proof of purchase. If something goes wrong with your Accel Power Source 12 power supply, send a brief description of the problem to [support@accelaudio.com](mailto:support@accelaudio.com). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Accel Technologies, LLC.**

Email: [support@accelaudio.com](mailto:support@accelaudio.com)