

# **INSTRUCTION MANUAL**

## **MODEL 2000-01 POWER SUPPLY**

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# INSTRUCTION MANUAL

## MODEL 2000-01 POWER SUPPLY

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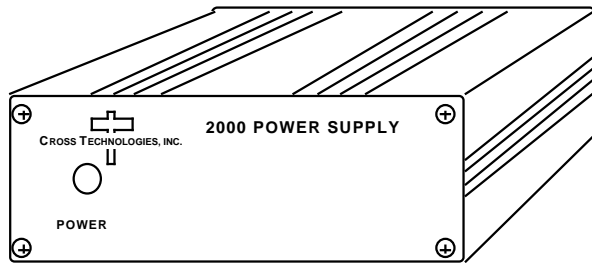
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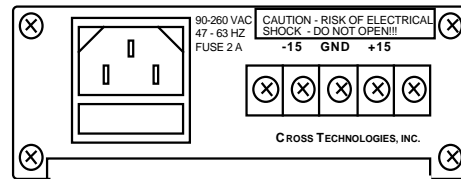
## MODEL 2000-01 POWER SUPPLY

### SECTION 1 GENERAL

**1.1 Equipment Description** - The 2000-01 Power Supply is a switching power supply which provides regulated +15 VDC at 1.2 amps and -15 VDC at 0.5 amps with a 90 to 260 VAC, 47 to 63 Hz input and can be used with Cross Series 2000 products. The input AC connector is IEC 320 C13 and the DC outputs are on a barrier strip. The 2000-01 can be mounted on an 1 3/4" X 19" rack mount panel (**option -R**)



**2000-01 POWER SUPPLY**



**2000-01 REAR PANEL**

### **1.2 Technical Characteristics**

**TABLE 1.0 2000-01 POWER SUPPLY SPECIFICATIONS**

#### **AC Input Characteristics**

Voltage	90 - 260 VAC
Frequency	47 - 63 Hz
Power, maximum	50 watts

#### **DC Output Characteristics**

Voltage / Current	+15 VDC / 1.2 amps, -15 VDC / 0.5 amps
Load Regulation, max.	+, - 5%
Power Supply type	Switcher
Switching Frequency	50 kHz, typical

#### **Indicators**

DC Power	Green LED
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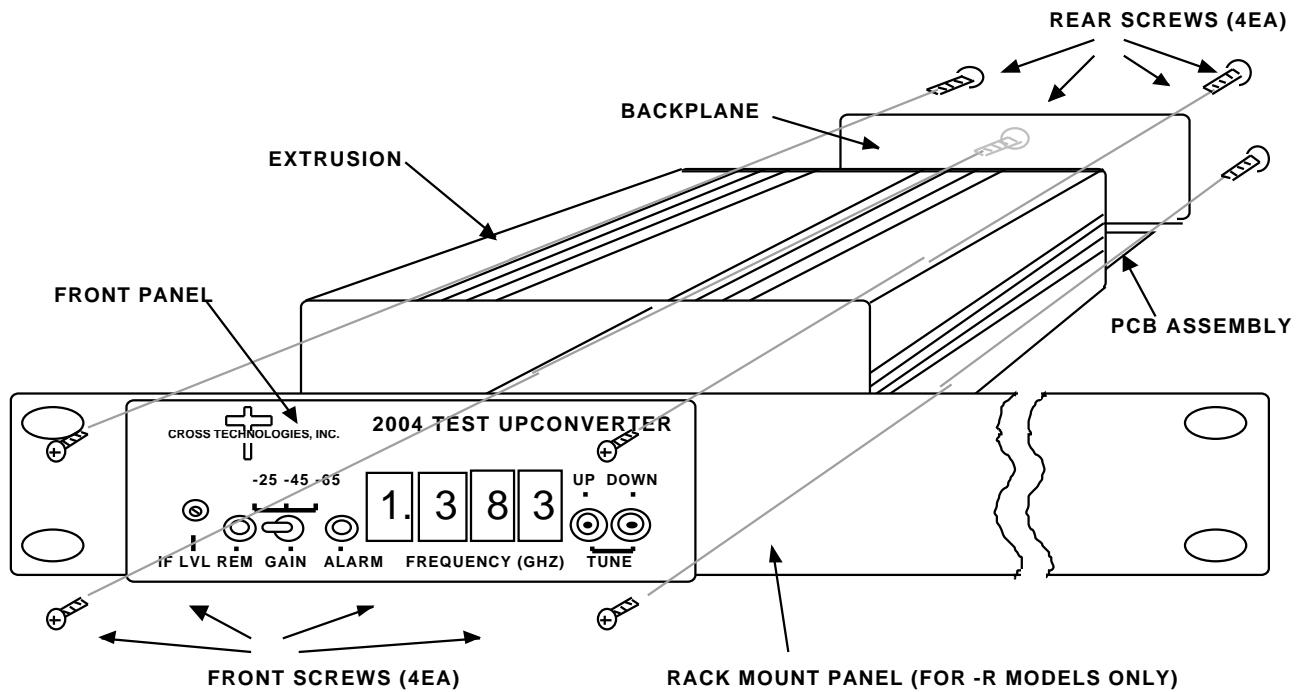
#### **Other**

Connector, AC Input	IEC 320 C13
Connector, DC Output	Barrier Strip
Size, Bench Top	4.7" wide X 1.75" high X 8.5" deep
Size, Rack Mount (-R)	19 inch standard chassis 1.75" high X 9.0" deep (Optional)

\*+10 to +40 degrees C; Specifications subject to change without notice

## 2.0 Installation

**2.1 Mechanical** - The 2000-01 is packaged in an aluminum extrusion. The **-R option** is mounted on a 1 3/4" X 19" panel that can be mounted to a rack using the 4 holes at the ends. See Figure 2.1.



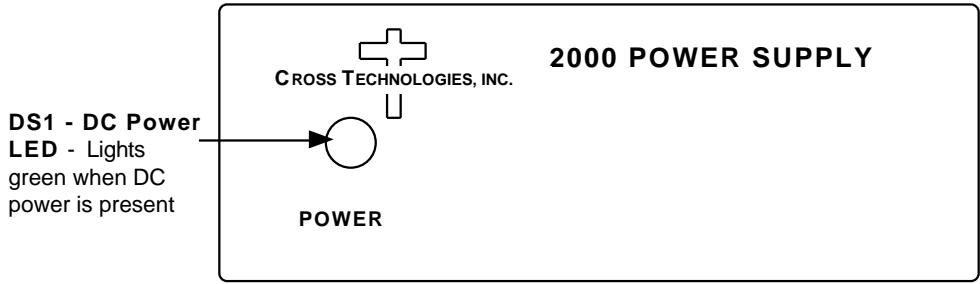
**FIGURE 2.1 SERIES 2000 ASSEMBLY DRAWING**

**2.2 Controls and Indicators** - Figure 2.2 shows the front panel indicator.

**2.3 Input / Output Signals** - Figure 2.3 shows the input and output signals to the 2000-01.

**2.4 Accessing and Changing On-Card Fuse** - The **primary fuse** is in the AC connector fuse box (Figure 2.3, Section 2.5.2). Figure 2.4 shows the **secondary fuse** on the power supply. To remove the power supply from the extrusion for access to the secondary fuse:

- 1.) Remove four (4) **rear panel screws** (see Figure 2.1).
- 2.) **Gently** pull the power supply assembly completely out of the extrusion.
- 3.) With **AC Power disconnected**, replace fuse with a **2.5 amp fuse** (Figure 2.4).
- 4.) **Gently** push the power supply assembly completely in to the extrusion.
- 5.) Install four (4) **rear panel screws**.

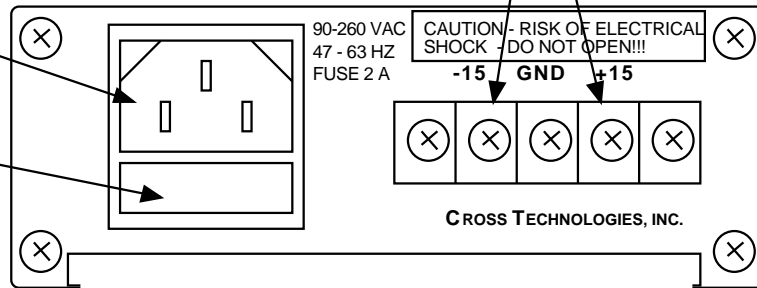


**FIGURE 2.2 2000-01 Front Panel Indicator**

**J1 - AC Input** - The 90-260 VAC 47 - 63 HZ input . The fuse is in the tray below this and is a 2.0 amp fuse. There is also a 2.5 amp fuse on the internal power supply

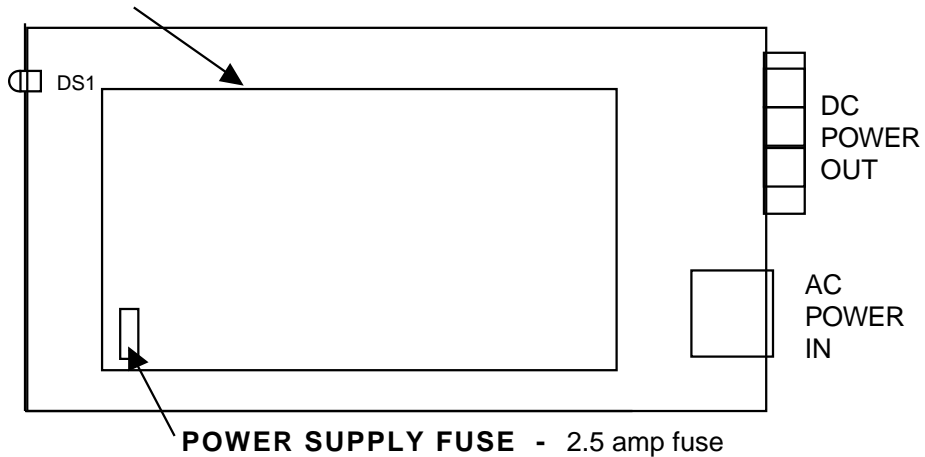
**J2 - DC POWER OUT**- The +15 VDC (1.2 A) and -15 VDC (0.5 A) regulated DC output voltage

**Fuse Box** - A 2.0 amp fuse. There is also a spare 2.0 amp fuse in the box



**FIGURE 2.3 2000-01 Inputs and Outputs**

**SWITCHING POWER SUPPLY** - Provides the +15 VDC (1.2 A) and -15 VDC (0.5 A) regulated DC output voltage



**FIGURE 2.4 2000-01 On-Card AC Power Supply Fuse**  
(See Section 2.4 for instructions on removing the unit from the extrusion)

## **2.5 Installation / Operation -**

### **2.5.1 Installing and Operating the 2000-01 -**

- 1.) Connect the DC power to the Series 2000 unit.
- 2.) Connect the 2000-01 to 90 to 260 VAC, 43 - 60 Hz.
- 3.) Be sure DS1 (green, DC Power) is on (Figure 2.2).

### **2.5.2 Replacing the fuse in the rear panel fuse box (Figure 2.3) -**

- 1.) Remove the 90 to 260 VAC, 43 - 60 Hz to the 2000-01
- 2.) Pull out the fuse box below the AC input connector (Figure 2.3).
- 3.) Pry out the fuse in the back slot and measure it to see if it is open.
- 4.) If the fuse is open determine the cause of the blown fuse and repair this.
- 5.) After the cause of the blown fuse is corrected, replace the open fuse with the **2.0 amp** fuse in the front section.
- 6.) Apply 90 to 260 VAC, 43 - 60 Hz to the 2000-01 and be sure DS1 (green, DC Power) is on (Figure 2.2).