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CROSS TECHNOLOGIES, INC.

6170 Shiloh Road
Alpharetta, Georgia 30005

(770) 886-8005
FAX (770) 886-7964
Toll Free 888-900-5588

WEB www.crosstechnologies.com
E-MAIL info@crosstechnologies.com
INSTRUCTION MANUAL

MODEL 2000-01 Power Supply

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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 100-240 ±10% 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).

---

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

<table>
<thead>
<tr>
<th>AC Input Characteristics</th>
<th>DC Output Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>+15 VDC/ 1.2 amps, -15 VDC/ 0.5 amps</td>
</tr>
<tr>
<td>Frequency</td>
<td>± 5% Switcher</td>
</tr>
<tr>
<td>Power, maximum</td>
<td>50 kHz, typical</td>
</tr>
</tbody>
</table>

Indicators

DC Power

Green LED

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

19 inch standard chassis

Size, Rack Mount (-R)

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.)

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 2.0 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

DS1 - DC POWER LED
Lights green when DC power is present.

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

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

POWER SUPPLY FUSE - 2.0 amp fuse
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 100-240 ±10% 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 100-240 ±10% 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 100-240 ±10% VAC, 43 - 60 Hz to the 2000-01 and be sure DS1 (green, DC Power) is on Figure 2.2.

![Fuse Location and Spare Fuse](image_url)
3.0 Environmetal Use Information

A. **Elevated operating ambient temperature** - if installed in a closed or multiunit rack assembly, the operating ambient temperature of the rack may be greater than room ambient temperature. Therefore, consideration should be given to Tmra.

B. **Reduced air flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Additional space between units may be required.

C. **Mechanical loading** - Mounting of equipment in a rack should be such that a hazardous condition does not exist due to uneven weight distribution.

D. **Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits could have on over current protection and supply wiring. Appropriate consideration of equipment name plate rating should be used, when addressing this concern.

E. **Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connection to the Branch (use of power strips).

F. **Top Cover** - There are no serviceable parts inside the product so, the Top Cover should not be removed. If the Top Cover is removed the ground strap and associated screw MUST BE RE-INSTALLED prior to Top Cover screw replacement. FAILURE TO DO this may cause INGRESS and/or EGRESS emission problems.