SIEMENS

Installation Instructions
Model MPS-12
Power Supply Module

OPERATION

The Model MPS-12 from Siemens Industry, Inc. is a high current power supply that provides the MXL System with primary 24 VDC power. It is rated at 12 amps and is unfiltered and unregulated. The MPS-12 supplies the MXL Control Panel or PSR-1 and its expansion modules with the power required for normal operation. The module incorporates a 5 amp resettable circuitbreaker on the primary input, a 15 amp fuse on the 24V output, and a built-in AC line filter for surge and noise suppression. The MPS-12 mounts in an MXL enclosure backbox.

INSTALLATION
Always remove power before installation.

The installation kit for the MPS-12 includes the following:

      Four #10 nuts
      Two #10 lockwashers
      Two #10 flat washers
      Two ¼" nuts
      One 14 gauge green ground strap

The MPS-12 is designed to operate from a 120 VAC, 60 Hz power source. Use a separate or dedicated circuitbreaker. Wire in accordance with local codes and Article 760 of the NEC, NFPA 70, latest edition.
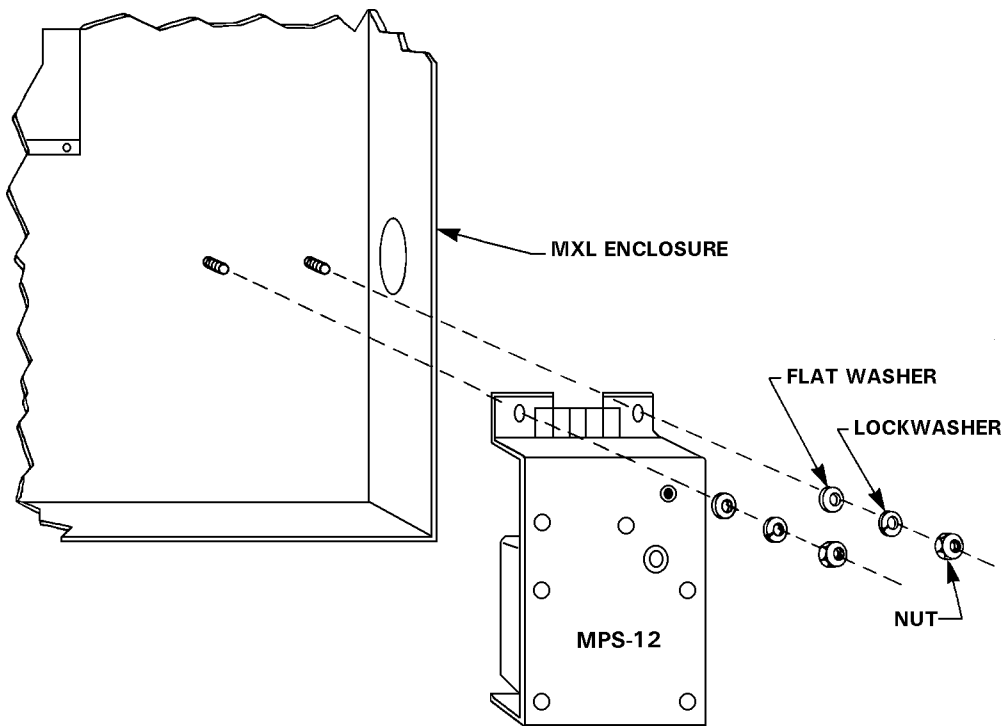
Run the earth ground from a suitable source to the MPS-12. Check local requirements. **Conduit is not an acceptable conductor.**

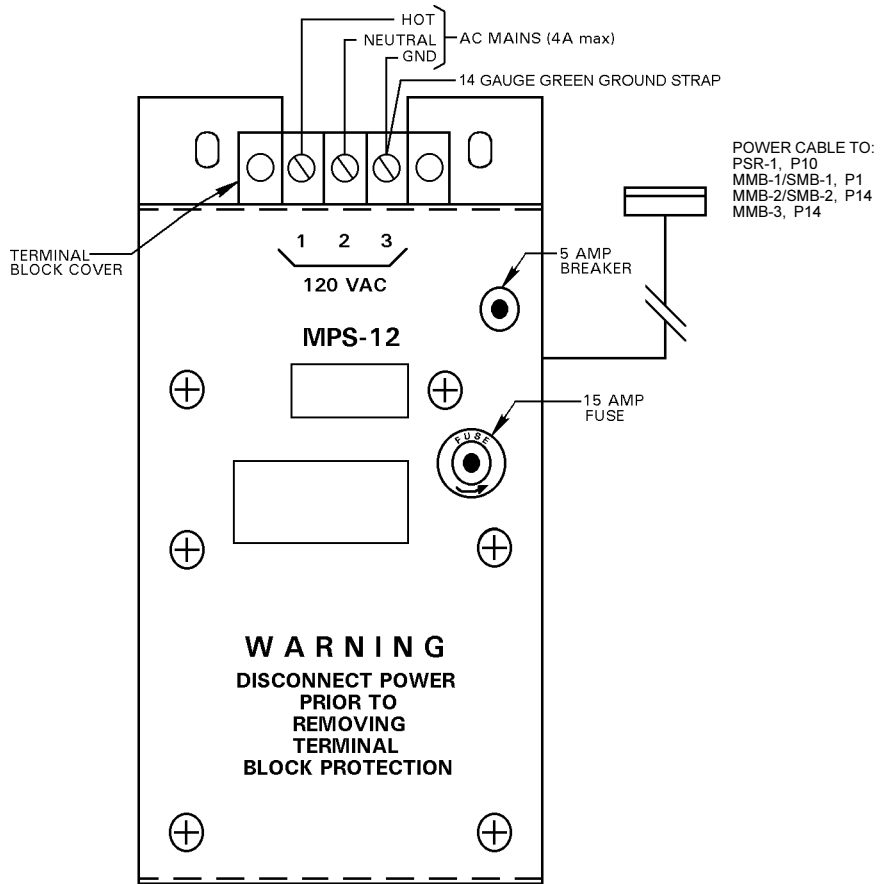1. **Make sure that the dedicated circuitbreaker** for the MPS-12 is turned off at the mains.

2. Place the mounting bracket for the MPS-12 over the two studs provided in the enclosure. (Refer to Figure 1.)

3. Secure the MPS-12 to the enclosure by slipping the flat washers, then the lockwashers, and finally the nuts over the two studs. Tighten them securely.

4. Connect the AC mains to the MPS-12:

	Terminal
Black (hot)	1
White (neutral)	2
Green (earth ground)	3

5. Install the 14 gauge green ground strap spade lug side to Terminal 3 (green, earth ground) of the MPS-12. Secure the ring lug side of the ground strap to the nearest available stud in the enclosure. The stud size may vary depending on the actual system modules and enclosure used. Because the stud may be either a #10 thread or ¼" thread, nuts for both have been provided. The ground strap provided is long enough for all applications and the ring lug is good for both #10 and ¼" studs. If possible, install the ring lug under one of the lockwashers and nuts which secure the MPS-12 itself.

6. ***When used with a PSR-1:***
Connect the 8-wire cable coming from the MPS-12 to the PSR-1 at P10.

When used with an MMB-2/-3 or SMB-2:
Connect the 8-wire cable coming from the MPS-12 to the MMB-2/-3 or SMB-2 at P14.

When used with an MMB-1 or SMB-1:
Connect the CIA-12 Cable Adapter, P/N 500-692825, to the 8-wire cable coming from the MPS-12, and then to the MMB-1 or SMB-1at P1.

Figure 1
MPS-12 in MXL Enclosure

MXL ENCLOSURE

FLAT WASHER

LOCKWASHER

NUT

MPS-12

HOT
NEUTRAL
GND
AC MAINS (4A max)

14 GAUGE GREEN GROUND STRAP

POWER CABLE TO:
PSR-1, P10
MMB-1/SMB-1, P1
MMB-2/SMB-2, P14
MMB-3, P14

TERMINAL
BLOCK COVER

1   2   3

120 VAC

MPS-12

5 AMP
BREAKER

15 AMP
FUSE

FUSE

W A R N I N G
DISCONNECT POWER
PRIOR TO
REMOVING
TERMINAL
BLOCK PROTECTION

Figure 2
Front of MPS-12