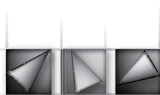




Model 6012A

**150 Watt Universal Switching Power Supply
for use with Model 6000A Card Cage.**



**CSI Communications
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Welcome

The Model 6012A universal switching power supply plugs directly into the Model 6000A rack-mountable card cage and is designed to provide power to most combinations of rack-mountable Fiberlink® or Copperlink™ modules(or cards). This supply occupies three adjacent positions in the card cage. For redundant operation, more than one Model 6012A power supply may be used.

Do not mix the 6012A 150 Watt Power Supply with the 6010A 85 Watt Power Supply in the same rack.

The Model 6012A universal switching power supply is certified to meet the safety and EMI requirements of most regulatory agencies in the US, Canada and abroad.

Package Contents

- One Model 6012A
- This User's Manual

Technical Specifications

Total Number of Positions	3
Input Voltage Range (continuous)	90 to 260 volts AC 47 to 63 Hz @ 2A max.
Output Power	15 volts DC +/-5% regulated @ 10 A max.
Output Protection	Overvoltage; crowbar, short circuit; current limiting
Input Protection	A/C Fuse for catastrophic failure
Ripple and Noise	1% p-p, DC to 20 MHz
Operating Temperature Range	-20° C to +70° C; Derate linearly from 100% load at 50° C to 50% load at 70° C
Input Power Connector	IEC 320
Switching Frequency	Greater than 30 KHz
EMI Compliance	EMI Compliance FCC 20870 Curve B, VDE EN55022 Class B, European CE
Safety Compliance	UL1950, CSA22.2 No 220, VDE EN60950, European CE
Shock	MIL-STD 810E Method 516.4
Vibration	MIL-STD 810E Method 514.4
Efficiency	88%
MTBF	100,000 Hours

Installation Instructions

The Model 6012A Universal Switching Power Supply is ready for immediate use and does not require any special tools or equipment.

The following instructions describe the typical installation procedure:

- 1) Plug the Universal Switching Power Supply into the Model 6000A card cage. The unit will occupy three, adjacent positions. You may choose which three. If redundant operation is desired, additional Model 6012A' units may also be inserted, each occupying an additional three positions.
- 2) Plug a suitable line cord into the rear IEC power connector. Note that the Model 6012A will automatically operate from all AC power sources between 90 and 260 volts at 50 or 60 Hz. No user adjustment is required.
- 3) Use the front panel power switch to turn the unit on. An illuminated power indicator LED signifies the presence of power.

Do not use the Model 6012A universal switching power supply and an external user-provided power source or the Model 6010A simultaneously. Doing so may result in damage to either the supply or to the modules in the cage.

The Model 6012A universal switching power supply is "hot swappable," meaning that it may be inserted or removed from the card cage without first turning off the power. This feature is important when using redundant power supplies as it gives the user the freedom to add or remove a second power supply while maintaining operation of all modules in the cage.

Built-In Alarm Feature for Redundant Operation

The Model 6012A Universal Switching Power Supply contains an output voltage sensing circuit that operates when two or more power supplies and a Model 6022A Alarm Sensing Module are employed in the same 6000A Card Cage. If one supply should fail, a signal is produced that will activate the Alarm Sensing Module. This results in a blinking LED, a piezo sounder and activation of a set of external contacts on the Alarm Sensing Module that can be used to remotely signify the occurrence of failure.

This feature is not available when using one power supply.



WARNING: This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of FCC Rules,

which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRONIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

**RISK OF ELECTRIC SHOCK.
DO NOT OPEN!**



CAUTION

TO REDUCE THE RISK OF ELECTRONIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Maintenance and Repairs

The Model 6012A Series has been manufactured using the latest semiconductor devices and techniques that electronic technology has to offer. They have been designed for long, reliable and trouble-free service and are not normally field repairable.

Should difficulty be encountered, Communications Specialties maintains a complete service facility to render accurate, timely and reliable service of all products.

All other questions or comments should be directed to our Customer Service Department. It should be noted that many "problems" can easily be solved by a simple telephone call.

If you suspect your problem is caused by the optics or the fiber optic cable, and you have an optical power meter, please take the appropriate measurements prior to contacting support.

Warranty



Communications Specialties, Inc. (CSI) warrants that, for a period of three years after purchase by the Buyer, this product will be free from defects in material and workmanship under normal use and service. A Return Material Authorization (RMA) number must be obtained from CSI before any equipment is returned by the Buyer. All materials must be shipped to CSI at the expense and risk of the Buyer.

CSI's obligation under this warranty will be limited, at its option, to either the repair or replacement of defective units, including free materials and labor. In no event shall CSI be responsible for any incidental or consequential damages or loss of profits or goodwill.

CSI shall not be obligated to replace or repair equipment that has been damaged by fire, war, acts of God, or similar causes, or equipment that has been serviced by unauthorized personnel, altered, improperly installed, or abused.

RMA numbers and repairs can be obtained from:

Communications Specialties, Inc.

55 Cabot Court

Hauppauge, NY 11788 USA

Tel: (631) 273-0404

Fax: (631) 273-1638

RMA numbers can also be obtained from our web site: **commspecial.com**

Please have your serial number available.



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