# **COMPLIANCE INFORMATION**

UL Listed C-UL Listed (Canada) CISPR/EN55022 Class A

### **FCC Regulations**

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

### **Canadian Regulations**

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### **European Regulations**

### Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### Achtuna!

Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten, in weichen Fällen der Benutzer für entsprechende Gegenmaßnahmen werantwortlich ist.

### Attention!

Ceci est un produit de Classe A. Dans un environment domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilsateur de prende les measures spécifiques appropriées.



# 48 VDC-to-12 VDC External Power Supply SPS-48V USER'S GUIDE

The TRANSITION Networks SPS-48V 48-to-12 VDC External Power Supply provides isolated 12 VDC output voltage from a 48 VDC external input voltage source to a media converter or similar devce.



### **Trademark Notice**

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nstallation2
Maintenance4
Technical Specifications6
Compliance Information8

# INSTALLATION

NOTE: The TRANSITION Networks 48-to-12 VDC External Power Supply is shipped with four (4) attached feet.

- 1. For installation, place on any *well-ventilated* table-top or shelf with access to a 48 VDC power source.
- Connect barrel connector attached to 12 VDC cord on External Power Supply to media converter or similar device



CAUTION: Ensure that 48 VDC power source is NOT powered when connecting power to the 48-to-12 External Power Supply. Failure to observe this caution could result in damage to, and subsequent failure of, the 48-to-12 External Power Supply and of any attached device.

3. Ensure that external power source is powered OFF.

Compliance UL listed EN60950; FCC & CISPR class A; CE Mark

**Dimensions** 5.6" x 3.3"" x 1.6""

**Power Distribution** +12VDC at 0.8 A maximum.

**Power Consumption** 14 watts maximum

**Long Term Stability** 0.1% for eight (8) hours (after 20 minutes warm-up)

Efficiency 70 % (typical)

Noise and Ripple 1% peak-to-peak of output voltage (typical)

MTBF Greater than 60,000 hours with typical load operating

at 20°C ambient temperature (calculated according to

MIL-HDBK-217E)

**Environment** Typical Operating Temperature\*: 0-50°C (32° to 122° F)

Storage Temperature: -20 to 85°C

Humidity: 10-90%, non condensing

Altitude: 0-10,000 feet

Warranty Lifetime

\*At operating temperature range 50°C-70°C, operates linearly to 50% of full rating.

TRANSITION DECL

# **DECLARATION OF CONFORMITY**

Name of Mfg: Transition Networks

6475 City West Parkway, Minneapolis MN 55344 USA

Model: SPS-48V External Power Supply

Part Number: SPS-48V

Regulation: EMC Directive 89/336/EEC

Purpose: To declare that the *SPS-48V* to which this declaration refers is in conformity with the following standards.

EMC-CISPR 22: 1985 Class A; EN 55022: 1988 Class A; EN 50082-1:1992; EN 60950 A4:1997; IEC 801.2, IEC 801.3, and IEC 801.4; IEC 950

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Stopher and Continued of Continued on Contin

\_May 8, 2001\_\_ Date

Stephen Anderson, Vice-President of Engineering

# TECHNICAL SPECIFICATIONS

# Input

Input Voltage 48 VDC

Inrush Current 0.20 A (peak cold start)

**Hold-Up Time** 20 msec minimum at full load and nominal input

voltage

**Isolation Voltage** (Dielectric withstand) Meets IEC 960 for one minute.

1,500 VAC: Output/Input

500 VAC: Input/Safety GND

500 VAC: Output/Safety GND

Output

Output Voltage 12 VDC
Output Current 0.8 A

Line Regulation  $\pm 0.5 \%$  of all output within specified range Load Regulation  $\pm 1.0 \%$  at 20 % load to full-rated load

**Cross Regulation** ±1.0 % maximum on any output change from 50 % to

100 % rated load

**Transient Response** Output voltage returns in less than 3 msec following a

50 % load change

Over Load Protection (OLP) When the average power rating exceeds 125%-

150% of maximum power, output voltages reduced to a safe dissipation level; protects against short circuit of

any output.

Over Voltage Protection (OVP) 124 %  $\pm 8$  % on output.

**Over Circuit Protection** Withstands a continous short without damage; returns

automatically to regulation upon removal of short.

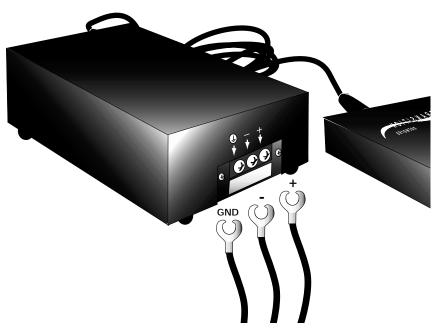
No Load Operation 
No damage to power supply when operating at no

load.

Overshoot Protection No voltage spike at power-on, power-off, or power

failure.

- Connect +48-VDC terminal to 48-to-12 VDC External Power Supply terminal block control marked "+". Turn terminal screw clockwise to secure.
- Connect -48-VDC terminal to 48-to-12 VDC External Power Supply terminal block control marked "-". Turn terminal screw clockwise to secure.
- Connect ground terminal to 48-to-12 VDC External Power Supply terminal block control marked "chassis ground". Turn terminal screw clockwise to secure.



7. Ensure that external power source is powered ON.

# **MAINTENANCE**

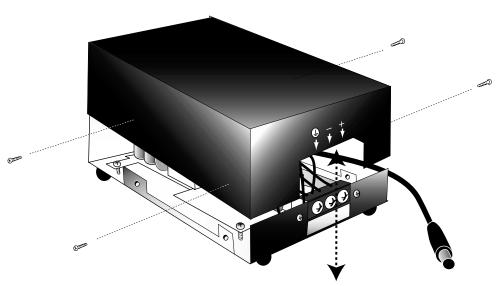
# Replacing Power Supply Module Fuse

CAUTION: Wear a grounding device and observe electrostatic discharge precautions when replacing the fuse in the 48-to-12 VDC External Power Supply. Failure to observe this caution could result in damage to, and subsequent failure of, the 48-to-12 VDC External Power Supply.

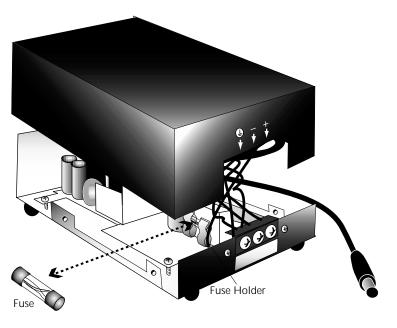
CAUTION: Replace fuse only with same size and rating. Failure to observe this caution could result in equipment damage.

CAUTION: Ensure that power source is NOT powered when disconnecting power from, or connecting power to, the 48-to-12 External Power Supply. Failure to observe this caution could result in damage to, and subsequent failure of, the 48-to-12 External Power Supply and of any attached device.

- 1. Ensure that external power source is powered OFF.
- 2. Disconnect +48-VDC terminal from Media Conversion Center terminal block control marked "+" by turning terminal screw counter-clockwise.
- Disconnect -48-VDC terminal from Media Conversion Center terminal block control marked "-" by turning terminal screw counter-clockwise.
- 4. Disconnect ground terminal from Media Conversion Center terminal block control marked "chassis ground" by turning terminal screw counter-clockwise.
- Remove and retain four (4) screws that secure cover to External Power Supply.



- Carefully lift cover from External Power Supply.
- 7. Locate fuse on 48-VDC Power Supply Module.



- 8. Carefully remove fuse from fuse holder.
- 9. Install same size and rating replacement fuse in fuse holder.
- 10. Carefully slide cover onto External Power Supply.
- 11. Replace four (4) retained screws that secure cover to External Power Supply.
- 12. Connect +48-VDC terminal to 48-to-12 VDC External Power Supply terminal block control marked "+". Turn terminal screw clockwise to secure.
- 13. Connect -48-VDC terminal to 48-to-12 VDC External Power Supply terminal block control marked "-". Turn terminal screw clockwise to secure.
- Connect ground terminal to 48-to-12 VDC External Power Supply terminal block control marked "chassis ground". Turn terminal screw clockwise to secure.
- 15. Ensure that external power source is powered ON.

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