

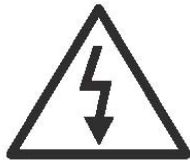


INSTALLATION MANUAL

CTPS-12 DUAL

Hot Swappable Redundant Power Supply

IMPORTANT INFORMATION



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

PACKAGE CONTENTS

This package contains:

- One CTPS-12 Dual Power Supply (2 power supply modules and chassis)
- One CTPS-12 Dual Power Supply harness
- One CTPS-12 Dual Power Supply installation manual

PRODUCT DESCRIPTION

The CTPS-12 Dual is a professional grade fully redundant, hot swappable power supply consisting of a pair of compact 78-watt multiple output modules designed for micro modulator headends. In addition to providing system reliability through its redundant capability, the CTPS-12 Dual's current sharing feature allows equal current load sharing between power modules, and minimizes power faults following a power module failure.

With the included power supply harness, the CTPS-12 Dual supports all Cabletronix micro modulators and demodulators. However, the CTPS-12 Dual is fully compatible with other vendor micro modulators and demodulators, but requires the use of the CTPS-12 Dual power supply harness. Contact your Cabletronix sales engineer and/or customer service representative for configuration details.

SPECIFICATIONS

CTPS-12 Dual

Fully Redundant Power Supply Specifications (Typical)

Input Rating	100 – 240 VAC
Output Rating	+5V / 0~5.5A, +12V / 0~3.5A
Output Voltage:	
Output Voltage at Test Point	+5V @0A: 5.445~5.470 +5V @5.5A: 5.410~5.450 +12V @0A: 12.500~12.800 +12V @3.5A: 12.500~13.000
Output Voltage at 37-pin Connector	+5V @0A: 5.270~5.360 +5V @5.5A: 4.950~5.150 +12V @0A: 12.200~12.400 +12V @3.5A 11.900~12.400
Ventilation	By separate integral fan
Power Indicator	Green LED: Normal Red LED: Abnormal No LED: Power Outage
Power Modules	2 single, replaceable units
Dimensions	4.2" W x 3.5" H x 8.9" D
Weight	4.4 lbs

INSTALLATION AND OPERATION

NOTE TO SYSTEM INSTALLER

System installer must adhere to Article 820-40 of the NEC that provides guidelines for proper grounding and specifies that the cable ground shall be connected to *the grounding system of the building*, as close to the point of cable entry as practical.

1. UNPACKING and HANDLING

Each unit is shipped assembled and factory tested.

Ensure that all accessories are removed from the container before discarding packing material

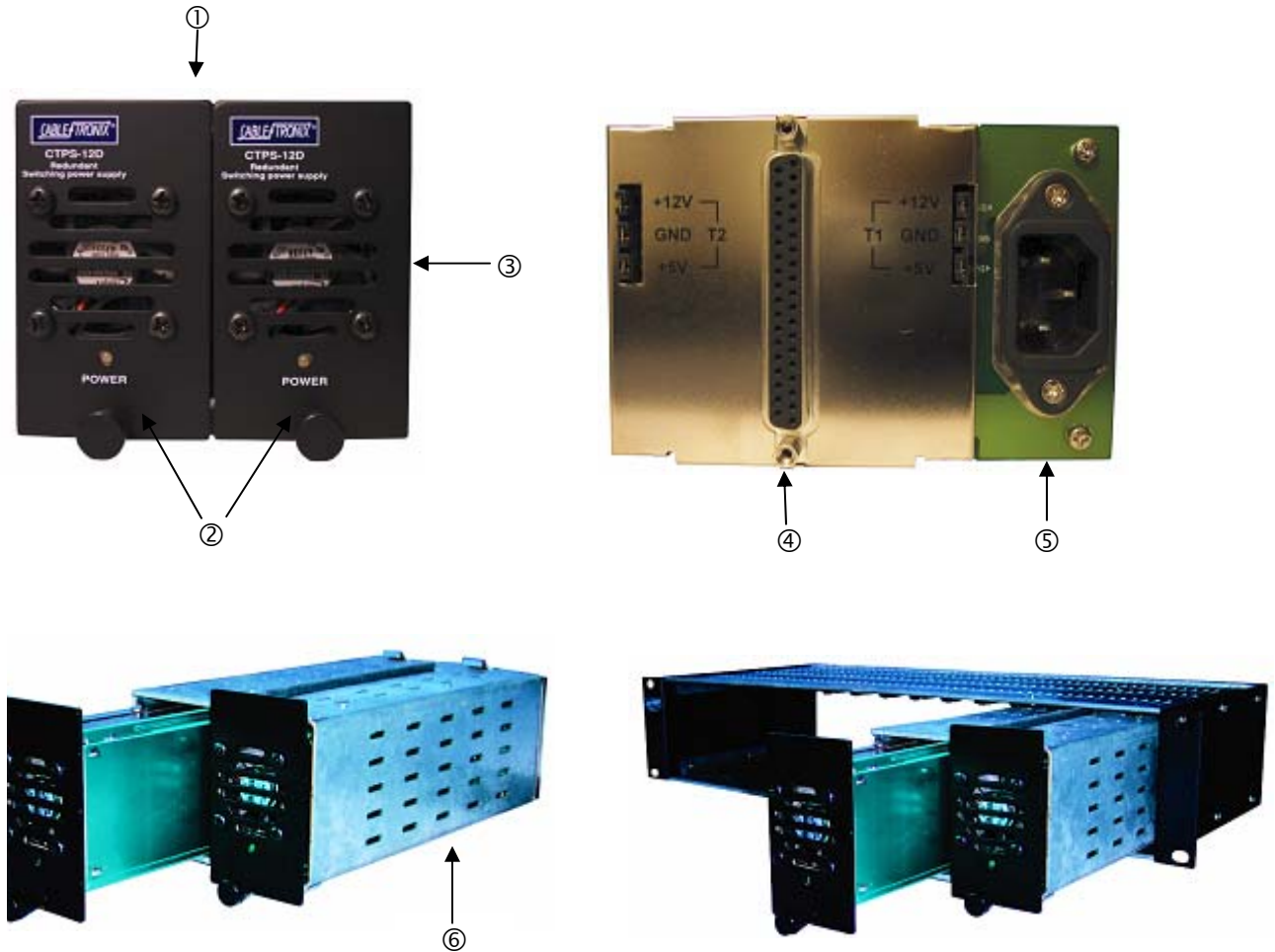
2. MECHANICAL INSPECTION

Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no connectors are broken, damaged, or loose. If equipment appears to be damaged or defective please contact your distributor or Cabletronix at 1-610-429-1511 for assistance.

3. THE USE OF RACK MOUNTABLE CHASSES AND POWER SUPPLIES

The CTPS-12 Dual is designed to be mounted in a rack chassis intended for micro modulators such as the Cabletronix CTRC-12 12-unit rack chassis, although other vendor chassis may be suitable.

4. PRODUCT DIAGRAM



CTPS-12 Dual in a CTRC-12 Rack Chassis

- 1 Dual Power Supply Modules
- 2 Power Status LED
- 3 Power Supply Module Internal Fan
- 4 32-pin Power Supply Wiring Harness Connector
- 5 AC Power Connector
- 6 CTPS-12 Dual Power Supply Chassis

5. HARDWARE CONNECTIONS

- a. Install the micro modulator chassis such as the Cabletronix CTRC-12 into a standard 19" EIA rack.
- b. Slide the CTPS-12 Dual (power supply chassis with two power supply modules) into the micro modulator chassis. If upgrading from a single power supply to the CTPS-12 Dual it may be necessary to partially back out the screws used to hold the sides of the power supply frame on the existing power supply.
- c. Connect the 32-pin wiring harness connector to the CTPS-12 Dual.
- d. Connect the wiring harness' 3-pin Molex DC Input connector(s) to each of the modulators in the micro modulator chassis.
- e. Connect the AC power cable to the CTPS-12 Dual.
- f. The use of a surge protector is highly recommended. Product warranty does not cover surge damages.

6. SWAPPING POWER MODULES

- a. Failed power supply modules are hot swappable and can be easily replaced without unpowering the system or disconnecting / reconnecting power harnesses or cables.
- b. Simply remove the failed power supply module by sliding the unit out of the front of the chassis.
- c. A replacement power supply module can be inserted by sliding it into the chassis and ensuring a firm connection.

7. TROUBLESHOOTING

- a. If using the CTPS-12 Dual with non-Cabletronix micro modulators or demodulators it is critical that the Cabletronix power supply wiring harness is used. Contact your distributor or Cabletronix sales engineer at 1-610-429-1511 for information.
- b. The CTPS-12 Dual Power Supply has internal fan cooling. However, in large, micro modulator dense headend applications it is highly recommended the **CT-FANRK** 3-unit rack mountable fan be used as significant heat reduction may double the modulators' life span.
- c. Further troubleshooting assistance can be found on-line at www.cabletronix.com in addition to support from Cabletronix sales engineers at 1-610-429-1511.