



**BLONDER  
TONGUE**  
LABORATORIES, INC.

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## INSTRUCTION MANUAL

# Power Supply 1536

-21 VDC Output Power Supply

Stock No. 1536



### Description

The 1536 Power Supply will deliver up to 100 milliamps of regulated DC at -21 VDC. The entire unit is protected from surges on both the AC line and the output, and is fully protected from short circuits. An auxiliary AC receptacle is provided for convenience and power looping for multiple power supply installations.

The unique output circuit of the 1536 allows it to be used to power two 75 Ohm cables (combined load not to exceed 100 milliamps). This provision makes it possible for the 1536 to power two TV preamplifiers such as those in Blonder Tongue's CMA-b series or to power two risers in a MATV system when fed from a non-power passing device. It can also be used to power a single cable in two directions.

### Features

- Twin Outputs Reduce Number of Power Supplies Needed
- Short Circuit Proof Regulator
- Clamped Output Voltage Protects Loads
- Panel Mounted Fuse and Auxiliary AC Receptacle

651104600K

The lightning flash with arrow-head symbol within an equilateral triangle is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



**CAUTION**  
**RISK OF ELECTRIC SHOCK**  
**DO NOT OPEN**



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

**TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE**

## Specifications

### Electrical

Output Voltage and Current:

-21 VDC Regulation maintained from 0 to 100 mA load with AC line voltage of at least 105 VAC.

RF Impedance: 75 Ohm

Return Loss 10 - 890 MHz: 20 dB Min., 23 dB Typ.

Thru-Loss

10 - 300 MHz: 0.3 dB Max., <0.2 dB Typ.; 470 - 890 MHz: 0.5 dB Max., 0.2 dB Typ.

Isolation Between Outputs

10 - 700 MHz: 40 dB Min., 50 dB Typ.; 700 - 890 MHz: 25 dB Min., 35 dB Typ.

Power Requirements: 105 - 130 VAC, 60 Hz, 0.1 A

### Mechanical

Dimensions (L x W x H): 8.25 x 3.5 x 2.25 in.

Shipping Weight: 2 lb.

## Installation

The power supply should be installed on a flat surface. Mounting holes are provided on the base flange for this purpose. The 1536 is designed so that its DC output can be duplexed on coaxial cable carrying RF signals. Only the connector indicated on the unit's label receives power. Connect the cable from the remote unit to this connector. The RF signal from the remote unit is available at the other connector (RF Output).

### CAUTION

If the coaxial line to the remote unit becomes short circuited, it may possibly damage the power supply.

## Service

The 1536 Power Supply is designed to give long, reliable service. If you suspect trouble, check input and output signals to determine whether the unit is at fault. In addition, carefully check connections between other units for breakage or shorts. If this does not restore normal operation, return the unit to your dealer or contract Blonder Tongue Dept. at 800-523-6049, Ext. 4256 for Service Return Authorization.



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