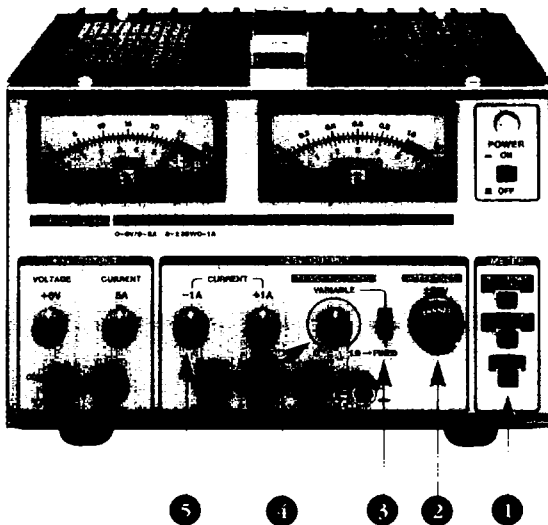


# TRIPLE OUTPUT POWER SUPPLIES



LPS-151/152A (LPS-152A shown)

- 1 Meter Switches — Selects any one of the three variable outputs for monitoring on separate voltage and current meters.

A consistently popular choice of design and test engineers for circuit development, evaluation and burn-in testing, Models LPS-151 and LPS-152A combine operational flexibility with the time-saving aspects of automatic overload recovery. The three supplies in each unit are fully adjustable and the voltage and current meters may be switched to monitor any of the three. A single REFERENCE control sets the  $\pm 25$  V supplies.

- + 25 V, - 25 V and + 6 V Fully Adjustable
- Auto-Tracking  $\pm 25$  V Supplies
- Full Voltage and Current Metering
- Independent Adjustable Current Limits
- Auto Recovery from Shorts and Overload
- < 3 mV Ripple

- 2 Reference/ $\pm 25$  V — Control for setting voltage levels. When the tracking ratio switch (3) is set to fixed, both 25 V outputs vary equally. When the tracking ratio switch is set to variable, the ratio of  $\pm 25$  V outputs track together.
- 3 Variable/Fixed — Switch selects tracking or fixed operation modes for  $\pm 25$  V outputs.
- 4 Variable Control — Used to adjust the - 25 V for the starting ratio voltage reference. It is inoperative in the fixed mode.
- 5 Current Controls — Enables adjustable current limits to be set for each output. If one of the current limits is exceeded, that output voltage goes to zero until the proper load is restored and then output is restored. Thus, both the power supply and circuit under test are protected from overload.

However, the negative supply may be offset with respect to the positive and the ratio between the two will track as the reference is varied. Full 50 V output may be obtained from the  $\pm 25$  V supplies by removing the ground reference. However, the 6 V supply should not be used if this mode is chosen. Current limits may be set for each supply. Exceeding the set limits causes voltage to drop to zero until the loading condition is corrected.

## KEY SPECIFICATIONS

### OUTPUT

#### Voltage

- 0 to + 6 V adjustable
- 0 to + 25 V adjustable
- 0 to - 25 V adjustable

#### Current

- LPS-151: 0 to 6 V output, 3.0 A max.  
 $\pm 25$  V output, 0.5 A max.
- LPS-152A: 0 to 6 V output, 5.0 A max.  
 $\pm 25$  V output, 1.0 A max.

### Current Limiter

- All outputs separately adjustable from 0 A to fully loaded at rated max. current with automatic recovery

### REGULATION

#### Load

- < 0.01% + 3 mV p-p for a 0 to 100% load variation

#### Line

- < 0.01% + 3 mV p-p for a  $\pm 10\%$  input line voltage variation

#### Ripple

- < 3 mV p-p

### METER

#### Voltage Ranges

- 0 to 7 V, 0 to +30 V, 0 to -30 V

#### Current Ranges

- LPS-151: 0 to 3.5 A, 0 to 0.6 A
- LPS-152A: 0 to 6 A, 0 to 1.2 A

#### Accuracy

- 5% f.s.

### GENERAL

#### Tracking Voltage Mode

- Negative versus positive voltage will track at 50% to 100% for  $\pm 25$  V outputs. Negative supply cannot exceed 100% of positive supply.

### POWER REQUIREMENTS

- 100, 120, 220, 240 V ac  $\pm 10\%$
- 50/60 Hz

- LPS-151 approx. 120 VA

- LPS-152A approx. 220 VA

#### Overload Protection

- Voltage shutdown, automatic recovery

### ENVIRONMENTAL

#### Operating Temperature

- 0° to +40°C operating at 100% load

#### Storage Temperature

- 20° to + 70°C

#### Humidity

- 30% to 85% RH

### PHYSICAL

#### Size (W x H x D)

- LPS-151: 8 1/2 x 5 1/4 x 13 in.  
215 x 132 x 332 mm
- LPS-152A: 8 1/2 x 5 1/4 x 14 1/8 in.  
215 x 132 x 360 mm

#### Weight

- LPS-151: 15 lbs., 6.8 kg
- LPS-152A: 18 1/2 lbs., 8.4 kg

### SUPPLIED ACCESSORY

- Spare Fuse

### AVAILABLE OPTIONS

- Double Banana Plug to Miniature Alligator Clips (LC-2021)