

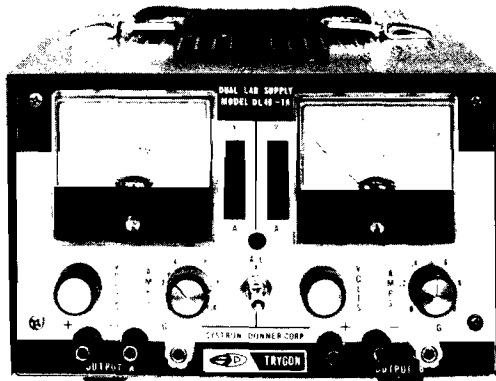


Advanced Test Equipment Rentals

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DL40-1A
Dual Output Power Supply
0 to 40 VDC 0 to 80 VDC



FEATURES

- Dual outputs — independently adjustable
- 10-turn voltage adjust controls
- Calibrated adjustable current limiting
- Remote voltage programming
- Remote sensing
- Series or parallel operation
- No turn on/turn off transients

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Input: 100-125/200-250 VAC, 47-420 Hz. (Internal Tap Change).
Output: Dual, Floating; isolated from ground, 300 VDC max.
Regulation, Line: 0.01% or 2 mV*, for 100-125/200-250 VAC line change at any output within specifications.
Regulation, Load: 0.01% or 3 mV*, no load to full load, at any output within specifications.
Ripple: 250 μ V RMS, 2 mV p-p (10 MHz) (20 mV p-p @ 420 Hz input).
Stability: 0.05% or 10 mV*, for 8 hours after warm-up. Measured at constant line voltage, load and ambient temperature.
Temperature Coefficient: (0.02% +400 μ V)/°C.
Temperature Range: 0 to +50°C.
Recovery Time: 25 microseconds to within 0.05% or 15 mV* of output voltage, for 100% step change in rated load.
Short Circuit Protection: Automatic Calibrated Current Limiting.
AC Power Input Protection: Fuse.
Remote Voltage Programming: Over output voltage range. Scale factor approximately 500 ohms/volt.
Remote Sensing: Maintains rated regulation directly at the load. Maximum line drop 0.5 volts per leg.
Voltage Adjustment Range: Continuously adjustable, 10-turn voltage control.

DESCRIPTION

The DL40-1A Silicon Dual Lab power supply is a dual-output, dual-range unit designed for general laboratory applications. It consists of two separate internal power generating sections, each adjustable in voltage and with separate outputs on the front panel and rear barrier strip.

A variety of voltage and current outputs are available providing unexcelled operational versatility and flexibility. This output flexibility permits the user to have complete convenience in filling laboratory power supply requirements.

The Dual Lab power supply utilizes silicon semiconductors permitting operation at its maximum temperature rating without derating.

Model	OUTPUT		
	Volts	Amps	Impedance*
DL40-1A	Dual 0 to 40	0 to 1	0.002 Ω
\$275	0 to 40	0 to 2 (parallel)	
	0 to 80	0 to 1 (series)	

*Nominal, DC - 1 kHz

GENERAL AND PHYSICAL SPECIFICATIONS

Design Principle: Precision Series Pass Regulation

Operational Mode: Constant Voltage with automatic adjustable current limiting.

Controls

Voltage: 10-turn control

Current Limit: Front panel calibrated control, 0 - 1A

Input Power: Front panel switch and indicator, AC ON.

Metering: Combination Volt/Ammeter with front panel selector switch for each supply.

Terminals

Front Panel: Positive Output (+V); Negative Output (-V); Ground (G). (For each supply).

Rear Panel: Output B Terminals 1-5, Output A Terminals 8-12

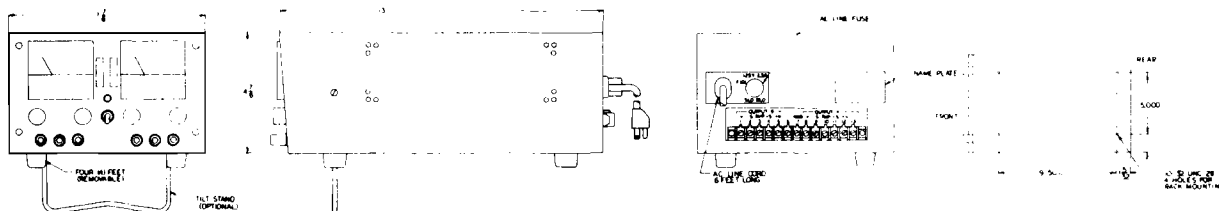
(1) Negative Output -V; (2) Negative Sensing -S; (3) Remote Voltage Programming RVP; (4) Positive Sensing +S; (5) Positive Output +V; (6) Spare; (7) Ground GND; (8) Negative Output -V; (9) Negative Sensing -S; (10) Remote Voltage Programming RVP; (11) Positive Sensing +S; (12) Positive Output +V; (13) Spare

Rack Mounting: RPA-1 (single), RPA-2 (mounts two DL40-1A units)

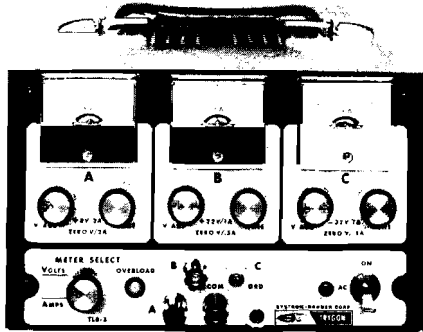
Size: 7-3/4"W x 4-15/16"H x 14-1/2"D.

Weight: 17 lbs.

* Whichever is greater



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FEATURES

- Three outputs – independently adjustable
- Automatic electronic current limiting
- No turn on/turn off transients
- Three independent dual range meters
- Overvoltage protection option

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Input: 105-125 VAC, 47-420 Hz; 105-115 VAC, 50 Hz.

Output:¹ Triple Floating; isolated from ground, 300 VDC max.

- (A.) 0 to +8 VDC, 3 ampere; rating reduces to 2 ampere at 0 VDC.
- (B.) 0 to +32 VDC, 1 ampere; rating reduces to 0.5 ampere at 0 VDC.
- (C.) 0 to -32 VDC at 1 ampere; rating reduces to 0.5 ampere at 0 VDC.

All outputs are referenced to a common return electrically isolated from chassis ground.

Regulation, Line: 0.02% or 2 mV*, for 105-125 VAC line change, at any output within specifications.

Regulation, Load: 0.02% or 5 mV*, no load to full load, at any output within specifications.

Ripple: 500 μ V RMS; 3 mV p-p. (10 MHz) (20 mV p-p @ 420 Hz input).

Stability: 0.1% or 10 mV*, for 8 hours after warm-up. Measured at constant line voltage, load and ambient temperature.

Temperature Coefficient: (0.02% +400 μ V/°C).

Temperature Range: 0°C to +40°C.

Recovery Time: 50 microseconds to within 0.05% or 15 mV* or output voltage, for 80% step change in rated load (.2 load to full load).

DESCRIPTION

The TL8-3 Triple Output Lab power supply is a multiple output unit specifically designed for laboratory applications utilizing IC circuitry. Independent output voltages are provided to allow simultaneous power to be supplied to a typical IC (digital or analog) breadboard circuit and two additional independent power sources for typical auxiliary circuitry. Output voltage and currents may be independently monitored.

A variety of voltage and current outputs are available providing unexcelled operational versatility and flexibility. This output flexibility permits the user to have complete convenience in filling laboratory power requirements.

The Triple Lab Power Supply utilizes silicon semiconductors permitting operation at its maximum temperature rating without derating.

Model	OUTPUT			Price
	Volts	Amps	Impedance*	
TL8-3	0 to +8 VDC	0 to 3	0.003 Ω	\$275
or	0 to +32 VDC	0 to 1	0.010 Ω	
TL8-3 OV	0 to -32 VDC	0 to 1	0.010 Ω	\$299

*Nominal, DC - 1 kHz

Short Circuit Protection: Automatic Electronic Current Limiting

AC Power Input Protection: Fuse

Voltage Adjustment Range: Continuously adjustable vernier controls.

GENERAL AND PHYSICAL SPECIFICATIONS

Design Principle: Precision Series Pass Regulation

Operation Mode: Constant voltage with automatic current limiting.

Controls

Voltage: Coarse and Fine; 0 to rated output; front panel. Resolution 1 mV on fine control.

Input Power: Front panel switch and indicator, AC ON.

Metering: (3) Combination Volt/Ammeters with front panel selector switch.

Front Panel Terminals: Positive output A, Positive output B, Negative output C, common return, chassis ground.

Overvoltage Protection: Internal adjustable overvoltage protection is available, as a factory option on output (0 to +8 VDC)

Size: 7-7/8"W x 4-7/8"H x 12-9/16"D

Weight: 16 lbs.

* Whichever is greater

¹ At maximum line voltage condition, the total output current should not exceed 80% of total allowable current.

