



**Scientech 4077B Multiple DC Power Supply** is designed as a Constant Current (CC) and Constant Voltage (CV) source for use in laboratories, industries and field testing. With compact size, light weight and low power loss, it provides DC output voltages for Analog and Digital testing.

A 3-digit display for voltage & 3 digit for current is provided.

Scientech 4077B has excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

### Features

- **Three floating, independent DC supply voltages.**
- **DC Outputs 0-36 V/ 2 A, 5 V/ 5A & 0 ± 15V Dual Tracking /1 Amp. each.**
- **Constant Voltage and Constant Current operation.**
- **Short circuit protection.**
- **Adjustable current limiter.**
- **Excellent Line & Load Regulation.**
- **Low Ripple voltage.**



## Technical Specifications

DC Output	:	A : 0-36 V, 2A, continuously variable by means of coarse and fine controls. B : 5V, 5A adjustable from (4 V - 6 V). C: 0 - $\pm 15$ V, 1 A Dual Tracking adjustable.
Current Limit	:	100 mA - 2 A continuously adjustable for (0-36V). 100 mA - 1 A continuously adjustable for ( $\pm 15$ V). 100 mA - 5A continuously adjustable for (4V-6V).
Setting Resolution	:	Voltage : 10 mV. Current : 2mA.
Internal Resistance	:	$\leq 15 \text{ m}\Omega$ .
Stability	:	2.5 mV (at 36 V / 2A, 5V / 5A, $\pm 15$ V / 1 A).
Recovery Time	:	$\leq 50 \mu\text{s}$ .
Load Regulation	:	$\pm (0.05 \% + 100 \text{ mV})$ .
Line Regulation	:	$\pm (0.05 \% + 100 \text{ mV})$ .
Temperature Coefficient	:	$\pm (0.05 \% + 5 \text{ mV} / ^\circ\text{C})$ .
Ripple & Noise	:	$\leq 1 \text{ mVrms}$ .
Display	:	3 digit for voltage & 3 digit for current.
Accuracy	:	$\pm (1\% + 1 \text{ digit})$ .
Tracking Error	:	$\pm (0.1\% + 5 \text{ mV})$ for $\pm 15 \text{ V}$ .
Over Range Indication	:	Glowing 'ORA' or 'ORB', 'ORC <sup>+</sup> ' or 'ORC <sup>-</sup> ' LEDs indicate Overload.

## General Information

All outputs are floating.

Built-in overheat, over voltage & short circuit protections.

Insulation

Between Chassis & output terminals  $> 10 \text{ M}\Omega$  at 100 V DC.

Between Chassis & AC plug  $> 50 \text{ M}\Omega$  at 500 V DC.

Power Supply	:	230 V, $\pm 10 \%$ , 50 / 60 Hz.
Operating Temperature	:	0-40° C, 80% RH.
Dimension (mm)	:	W 300 $\times$ D 330 $\times$ H 140 (approximately).
Weight	:	8 Kg approximately.
Product Tutorial	:	Online on <a href="http://www.ScientechLearning.com">www.ScientechLearning.com</a> .
Included Accessories	:	Power Cord-1no.