



**Sciencetech 4077A Multiple DC Power Supply** is designed as a Constant Current (CC) and Constant Voltage (CV) source source for use in laboratories, industries and field testing. With compact size, light weight and required for 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 to read the values. These two parameters are switchable for indicating either voltage or current.

Sciencetech 4077A 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 0-32V/2A, 5V/5A & 0±15V Dual Tracking/1Amp. each
- Constant Voltage and Constant Current operation
- Short circuit protection
- Digital display for voltage and current
- Adjustable current limiter
- Excellent Line & Load Regulation
- Low Ripple voltage

## Technical Specifications

DC Output	:	A : 0-32 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 (0-32V) 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 (32 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	:	$\pm (0.05 \% + 100 \text{ mV})$
Temp. 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 LED indication for voltage & 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' or 'ORC' 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 285  $\times$  D 410  $\times$  H 88

Weight : 5.2 Kg approximately

Product Tutorial : Online on [www.ScientechLearning.com](http://www.ScientechLearning.com)

Included Accessories : Power Cord-1no.

