



Sciencetech 4076 Dual Tracking 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.

The DC output can be adjusted from 0 to ± 30 V with Coarse and Fine controls. Current limit is adjustable from 0 -2 A. Overloading is indicated by "ORA" and "ORB" LEDs. Window (voltage & current) displays can be switched for either of the DC output.

A 3-digit Display is provided for voltage and current readings. These two parameters can be switched to display either voltage or current.

Sciencetech 4076 has low ripple and excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

Features

- Floating DC Supply Voltages with Common Controls
- DC: 0 to ± 30 V, /2 A and 5 V/2 A
- Automatic Overload (current) Protection
- Constant Voltage & Constant Current Operation
- Digital Panel Meter for Voltage and Current
- Adjustable Current Limiter
- Excellent Line & Load Regulation
- Low Ripple Voltage

Technical Specifications

DC Output	: A : $\pm 0 - 30V$, 2A Dual Tracking Continuously Variable by means of Coarse and Fine controls B: 5V / 2A (fixed)
Current Limit	: 100mA - 2A Adjustable
Resolution	: Voltage : 100mV, Current : 10mA
Internal Resistance	: $\leq 10m\Omega$ (30V), $\leq 0.6m\Omega$ (5V)
Stability	: 2.5mV at 30V / 2A 5mV at line voltage variations of up to 10 % for 5V/ 2A
Recovery Time	: $\leq 50\mu s$ at $\pm 0 - 30, 2A$, $\leq 100\mu s$ at 5V / 2A
Load Regulation	: $\pm (0.05 \% + 10 \text{ mV})$
Line Regulation	: $\pm (0.05 \% + 10mV)$
Temperature Coefficient	: $\pm (0.05 \% + 5 \text{ mV} / ^\circ\text{C})$ for 0 - 30V, 2A $\pm 0.1 \% / ^\circ\text{C}$ at 5V / 2A
Ripple & Noise	: $\leq 1mV_{rms}$ ($\pm 0 - 30V, 2A$) $\leq 5mV_{rms}$ (5V/2A)
Tolerance	: $\pm 0.2V$ (5V)
Display	: 3 digit for voltage 3 digit for current LED indication for Voltage & Current
Accuracy	: $\pm(1 \% + 1 \text{ digit})$
Over Range Indication	: Glowing 'ORA+' and 'ORA-' LEDs indicate Overload

General Information

Built-in overheat. Over voltage Short Circuit protections.

Both Outputs are floating.

Insulation

Between chassis & output terminals $>10 M\Omega$ at 100V DC

Between chassis & AC plug $>50 M\Omega$ at 500V DC

Power Supply	: 230V, $\pm 10\%$, 50 / 60 Hz
Operating Temperature	: 0-40°C, 80% RH
Dimension (mm)	: W 285 \times D 410 \times H 88
Weight	: 4.75 Kg approximately
Product Tutorial	: Online www.ScientechLearning.com

Included Accessories

Mains cord	: 1 no.
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