



Sciencetech 4180 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 - 30 V with coarse and fine controls. Current limit is adjustable from 100 mA to 5 A. Over loading is indicated by LED. After crossing the Specified limit a audible beep will sound. A 3-digit display for voltage and current is provided to read the values. These two parameters can be switched to display either voltage or current. Sciencetech 4180 has excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

Features

- DC 0-30 V / 5 A
- Floating Output
- Selectable display for Voltage & Current
- Low Ripple Voltage
- Excellent Line and Load Regulation
- Large Display

Technical Specifications

DC Output	:	0 - 30 V, 5 A continuously variable by means of Coarse and Fine controls with over load protection
Current Limit	:	100 mA to 5 A, Adjustable, current limiting facility
Setting Resolution	:	Voltage : 100 mV
Current	:	10 mA
Internal Resistance	:	$\leq 10\ m$
Stability	:	2.5 mV at 30 V / 5 A
Recovery Time	:	$\leq 50\ \mu\text{s}$
Load Regulation	:	$\pm (0.05\ \% + 10\ \text{mV})$
Line Regulation	:	$\pm (0.05\ \% + 10\ \text{mV})$
Temperature Coefficient	:	$\pm (0.05\ \% + 5\ \text{mV} / ^\circ\text{C})$
Ripple & Noise	:	$\leq 1\ \text{mVrms}$
Display	:	3 digit 7-segment LED indicator for Voltage and Current
Accuracy	:	$\pm (1\ \% + 1\ \text{digit})$
Over Range Indication	:	G lowing 'CC' LED indicate Overload

General Information

Output is floating and is switchable from the front panel.

Built-in overheat, over voltage, overload and short circuit protection.

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 262 \times D 216 \times H 130
Weight	:	4 Kg approximately
Product Tutorial	:	Online on www.ScientechWorld.com

Included Accessories

Mains cord	:	1 no.
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