



**Sciencetech 4181A 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 - 36V with coarse and fine controls. Current limit is adjustable from 100 mA to 20A. 3-digit display for voltage and 3½ digit for current is provided to read the values. Sciencetech 4181A has excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

### Features

- DC output : 0-36 V / 20A.
- Floating output.
- Constant voltage and constant current operation.
- Adjustable current limiter.
- Low ripple voltage.
- Excellent line and load regulation.
- Large display.



## Technical Specifications

|                         |   |   |
|-------------------------|---|---|
| DC Output               | : | 0- 36V, 20A continuously variable by means of Coarse and Fine controls. |
| Current Limit           | : | 100 mA to 20A, continuously adjustable.                                 |
| Setting Resolution      | : | Voltage : 100 mV.<br>Current : 10 mA.                                   |
| Stability               | : | 2.5 mV at 36 V / 20A.   |
| Recovery Time           | : | 50ms.   |
| 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          | : | $\leq 5 \text{ mVrms}$  |
| Display                 | : | 3 digits for voltage & 3 ½ digit for current.                           |
| Accuracy                | : | $\pm (1\% + 1 \text{ digit})$ .   |

## General Information

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

## 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 303 $\times$ D 330 $\times$ H 180  |
| Weight                | : | 10 kgs approximately.  |
| Product Tutorial      | : | Online on <a href="http://www.ScientechWorld.com">www.ScientechWorld.com</a> |

## Included Accessories

|            |   |       |
|------------|---|-------|
| Mains cord | : | 1 no. |
|------------|---|-------|