



The Sciencetech 4182 300V, 1A DC Power Supply has been designed as a constant current (CC) and constant voltage (CV) source for laboratories, industries and field testing applications, featuring low power loss and compact. It provides floating, DC output voltages and is ideally suitable for complex analog and digital applications.

The DC output can be continuously adjusted from 10 – 300 Volts with ten turn potentiometer of voltage variable control.

Current limit is also adjustable from 100mA – 1A.

A 3-digits display for voltage and 3-digits display for current is used to read the instantaneous values.

In addition to low residual ripple and noise, it has excellent line and load regulation.

The 300V, 1A Power Supply is also provided with all protective circuits to ensure trouble free operation.

Features

- DC 10 – 300V,1Amp
- Floating Output
- Individual display for Voltage & Current
- Low Ripple Voltage
- Excellent Line and Load Regulation
- Large size of Display
- Online product tutorial



Technical Specifications

DC Output	:	10 – 300V, continuously variable by means of Variable control
Output Current	:	1A (Maximum)
Setting Resolution	:	Voltage: 1V Current: 10mA
Stability	:	$\leq 2.5 \text{ mV at } 300\text{V}/1\text{A}$
Load Regulation	:	$\leq (0.05\% + 10 \text{ mV})$
Line Regulation	:	$\leq (0.05\% + 10 \text{ mV})$
Temperature Coefficient	:	$\leq (0.05\% + 5 \text{ mV}/^\circ\text{C})$
Ripple & Noise	:	$\leq 8\text{mVrms}$
Current Limit	:	Adjustable between 100mA to 1A
Display	:	3 Digit Seven Segment LED Display for Voltage and Current
Accuracy	:	$\pm (1\% + 1 \text{ digit})$

General Information

Built in over voltage, overload, overheat & short circuit protection. All outputs are floating.

Insulation

Between chassis and output terminal $> 10\text{M}\Omega$ at 1000V DC

Between chassis and AC plug $> 50 \text{ M}\Omega$ at 500V DC

Power Supply	:	230 V \pm 10% 50Hz, 60Hz on request
Operating Conditions	:	0–40°C; 80% RH
Dimension (mm)	:	W 380 × D420×H140
Weight	:	10 Kgs approximately
Product Tutorial	:	Online on www.SciencetechLearning.com