Scientech

0 - 30V - 3A DC Power Supply
Scientech 4078

Scientech 4078 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 adjustable from 0 - 30 V with Coarse and Fine controls. Current limit is adjustable from 0 - 3A. Over loading is indicated by LED.

A 3-digit LED display for voltage & current is used to read the values. These two parameters can be switched to display either voltage or current.

Scientech 4078 has excellent line and load regulation and is provided with protective circuits to ensure trouble free operation.

Features

- **Pre-Regulator based design**
- **DC 0-30 V, 0-3 Amp.**
- **Floating Output**
- **Selectable display for Voltage & Current**
- **Low Ripple Voltage**
- **Excellent Line and Load Regulation**
- **Large Display**

Technical Specifications

DC Output	:	0 - 30 V continuously variable by means of Coarse and Fine controls
Current limit	:	0-3 A Continuously adjustable
Setting Resolution	:	Voltage 100 mV Current 10 mA
Stability	:	2.5 mV at 30 V / 3 A
Recovering Time	:	$\leq$ 50 µs
Load Regulation	:	± (0.05 %+10 mV)
Line Regulation	:	± (0.05%+10 mV)
Temperature Coefficient	:	± (0.05 % + 5 mV / °C)
Ripple and Noise	:	± 1 mVrms
Current Limit	:	Adjustable between 100 mA to 3 A
Display	:	3 digit seven segment LED display for voltage and current
Accuracy	:	±(1% + 1 digit)
Over Range Indication	:	By flashing 'OR' LED

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 MΩ at 500 V DC

Between chassis & AC plug > 50 MΩ at 500 V DC

Power Supply	:	230 V ±10 %, 50 Hz / 60 Hz
Operating Temperature	:	0-40° C, 80% RH
Dimension (mm)	:	W 198 × D 278 × H 90
Weight	:	4.5 Kg approximately
Product Tutorial	:	Online on www.ScientechLearning.com

Included Accessories

Mains cord	:	- 1 no.