

VARIABLE POWER SUPPLY

Overview

This is a high quality power supply with a continuously variable stabilized output adjustable at any value between 0 and 30VDC. The circuit also incorporates an electronic output current limiter that effectively controls the output current from a few mill amperes (2 mA) to the maximum output of 2 amperes that the circuit can deliver.

This feature makes this power supply indispensable in the experimenter's laboratory as it is possible to limit the current to the typical maximum that a circuit under test may require, and power it up then, without any fear that it may be damaged if something goes wrong.

There is also a visual indication that the current limiter is in operation so that you can see at a glance that your circuit is exceeding or not its preset limits.

Specifications

1. Output Voltage 0-30VDC
2. Accuracy 0.1%
3. Line regulation $\pm 10\%$ Line voltage
4. Load regulation $\pm 0.05\% \pm 3\text{mV}$
5. Output Current 2amps
6. Resolution 10mA
7. Ripple 1mVrms

Features

1. Adjustable 0-30V DC at up to 2A.
2. Stable output <1mVrms of ripple.
3. Coarse and fine voltage adjustments.
4. Current limit adjustment facility.
5. Front panel safety input terminals.
6. Reduced dimensions, easy construction, simple operation.
7. Output voltage easily adjustable.
8. Output current limiting with visual indication.
9. Short circuit protection with buzzer.



Applications

1. Useful in Engineering Industries.
2. Useful for all Educational institutions in Electrical, Electronics & communication and Telecommunication labs.



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