

Product Code . JL-PET-1419



SCR Regulated DC Power Supply

Description

SCR Regulated DC Power Supply

- Study of output voltage variation, regulation and ripple in open loop (without feedback) by varying the load using inductance input filter.
- Same as above experiment by using capacitor input filter.
- Study of output voltage variation, regulation and ripple in closed loop feed back by varying the load using inductance input filter shunt transistor pedestal control.
- Same as above experiment by using capacitor input filter-shunt transistor pedestal control
- Study of variation in output voltage for different slopes of linear resistance controlled ramp
- Study of line voltage variation (open loop) compensation
- Study of output voltage variation, regulation and ripple in closed loop feed back by varying load-series transistor controlled ramp in differential amplifier mode

Features:

The board consists of following built-in parts:

- 24V D.C. Regulated Power Supply internally connected
- Freewheeling diode
- Transformer 0-40V, 500 mA
- Two SCRs connected in bridge configuration with rectifiers
- Four Diode connected in bridge and one zener for control circuit supply
- UJT 2N 2646 for relaxation oscillator to supply triggering pulses for SCRs
- Pulse transformer 1:1:1.
- Three potentiometers for different modes of voltage adjustment
- Adequate no. of other Electronic Components
- Mains ON/OFF switch, Fuse and Jewel light

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- The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains
 - Adequate no. of patch cords stackable 4 mm spring loaded plug length $\frac{1}{2}$ metre
 - Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms
 - Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References

Weight:-

- 3 Kg. (Approx.)

Dimension:-

- W 340 x H 110 x D 210

Other Apparatus Required:-

- Digital Multimeter 3 $\frac{3}{4}$ digit - Order Code 16901
- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)
- Variac, 0-230VA.C. @ 2Amp

Pay Mode Terms:

- T/T (Bank Transfer)

Port of Dispatch:

- India

Delivery Time:

- 4 weeks

Packaging Details:

- Corrugated Box

SCR Regulated DC Power Supply Manufacturer India, SCR Regulated DC Power Supply Exporters, Electronics SCR Regulated DC Power Supply, Buy SCR Regulated DC Power Supply Online India, Educational Equipments for School Lab, Laboratory Equipment Suppliers, Didactic, Didactic SCR Regulated DC Power Supply, Power Electronics Trainers Equipment Exporters, Scientific Instrument and Equipment Manufacturer.

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control Study of variation in output voltage for different slopes of linear resistance controlled ramp
Study of line voltage variation (open loop) compensation Study of output voltage variation, regulation
and ripple in closed loop feed back by varying load-series transistor controlled ramp in differential
amplifier mode SCR Regulated DC Power Supply Manufacturer India, SCR Regulated DC Power
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