

PROGRAMMABLE POWER SUPPLY



Application

Programmable power supplies are simple to use power source for students and professionals. These power supplies are safe to use, rugged in construction reliable and easy in operation. Single, Dual, Triple & Multi output power supplies are designed with high regulation, stability, low noise and ripple specifically to meet the requirement of industrial and educational applications. Each variable output operates in constant voltage (CV) or constant current (CC) mode and protected from short circuits and overload. All power supplies are provides adequate safety to users as well as the instruments and also comply all international safety standards.

Operation

The software is user friendly for easy operations allow the user to program their desired Voltage & Current by directly keying in the numbers or by selecting the MASTER SLAVE or VOLTAGE CURRENT

Features

Dual Chanel Regulated Power Supply With Tracking

Precise Voltage & Current Selections

Set or Read Current Without Load

One Touch Key Power Outputs

Fast correction keys for precise setting

Lock/ Unlock With Password

Very Low Ripple & Noise

User Friendly Operation

Unlimited Over load &

Short Circuit Protection

Comply All International Safety Standards

Wide Range Of Power Applications Up To 1000 Watts

keys. Four separate keys are also provided to make fast correction of set voltage. No voltage or current will be available at the output terminals till the Power out keys is pressed. An escape key is provided to abort any operation made wrongly. The unique features of this programmable power supply is, a user can precisely set the desired current without connecting the load and pre-set four different frequently required voltages & current in the memory and recall them by pressing a single key.

Specifications

Voltage & current display : Digital

4 meters for Dual / Triple Channels

Fixed output : 5V @ 3Amps max.

Ripple & noise : <2mV

Output current : Max rated current with over load (red LED) indication.

Models

Dual Channel (Master & Slave) : Two independent output of '0' to rated voltage & current

Dual Channel+ (Master & Slave)+ : Two independent output of '0' to rated voltage & current with one fixed output and a \pm power out

Triple Channel (Master & Slave)+1 : Two independent output of '0' to rated voltage & current with one fixed output

Operation modes

1) CV mode : Output range 0 to rated Volt continuously adjustable

Line Regulation : <0.01 % \pm 2mV for 10% change in line.

Load Regulation : <0.01% \pm 2mV for load vary from zero to full load

Ripple & noise : <1mV rms max.

Indication : CV mode GREEN LED

2). CC mode : Output range 0 to rated current continuously adjustable

Line Regulation : <0.1% \pm 250 μ A for \pm 10% change in line

Load Regulation : <0.1% \pm 250 μ A for change in output volt from 0 to max.

Ripple & noise : <0.05%rms

Indication : CC mode RED LED

Tracking Mode

Tracking operation : For Dual, Triple outputs

1) Independent : Output varies from 0 to rated voltage & current

2) Series : Output varies from 0 to double the rated voltage at rated current

3) Parallel : Output varies from 0 to double the rated current at rated voltage

Tracking Error : \leq 0.5% +10mV of the Master

Series Regulation : \leq 300mV

Protections : Automatic Overload and Short circuit protection.

Thermal protection is also provided by cooling fans

Input voltage : AC 230 V \pm 10%, 50Hz Single phase (110 VAC (optional)

