

# HIGH CURRENT DC POWER SUPPLY

## CONSTANT VOLTAGE/CONSTANT CURRENT

### FOR LINEAR ACCELERATOR STEERING MAGNET APPLICATIONS

MODEL 94C243

#### ■ Features

THE Model 94C243 provides 0 - 40V AT 0 - 300A and is provided as three separate relay rack panels which can be mounted in an existing cabinet at the customers site by the customer or shipped as a system component in a Mid-Eastern supplied cabinet..

The panels have all interface connections at the rear so that the customer can connect the three panels up into an operating power supply.total panel space height is 31.63". chassis depth is 26".



#### ■ SPECIFICATIONS

##### INPUT:

220 VAC +1-10% 50/60 HZ 3 PHASE.

Other inputs can be. specified by the customer such as 208 or 440 at time of order placement.

##### OUTPUT:

0-40 VDC 0-300 Amperes

##### REGULATION: CONSTANT VOLTAGE MODE:

LINE 0.02% For any line change increment within the ac input load: 0.02% for a full load step.

##### REGULATION CONSTANT CURRENT MODE LINE:

0.02%+1 mA for any line change increment within the ac input load: 0.02%+2mA for full compliance.

##### RIPPLE:

VOLTAGE MODE: 1 mV RMS, 5mV PP

CURRENT MODE: 40 mA

##### STABILITY:

0.03%+2 mV in voltage mode over 8 hours after warm up at constant line,load and ambient.

0.03%+20 mA in current mode over 8 hours after warm up at constant line, load and ambient.

##### TEMPERATURE COEFFICIENT:

0.01% Per degree c of rated on output

##### PROGRAMMING:

Voltage Mode 1000 ohms per volt current mode: 3.33 ohms per ampere.

##### PANEL CONTROLS:

3 Digit Digital VOLTMETER and AMMETER

AC INPUT CIRCUIT BREAKER

VOLTAGE ADJUST -10 TURN

CURRENT ADJUST -10 TURN

AC ON PILOT LIGHT



MID - EASTERN INDUSTRIES

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#### TERMINATIONS:

INPUT: BARRIER TERMINAL STRIP AT REAR PROVIDES ACIAC2IAC3I GROUND

#### OUTPUT:

Model 94C243: 3/8-16 Brass screws for load.  
BARRIER TERMINAL STRIP for sense and all other features.

#### COOLING: INTERNAL

Fans exhaust air to the rear of units.

#### OPTIONS:

- 06: OVER VOLTAGE shut down factory set at maximum rated output voltage +2 volts. overvoltage condition trips input circuit breaker. \$150.00
- 90: Option to program output current with an external 0 to 10V source. To use this option the, voltage source need not be; isolated and floating as the input control is isolated. \$250.00
- 95DC: REMOTE ON/OFF CONTROL. Remote contact closure turns dc on. Open CONTACTS = dc is off. \$75.00
- RS232: RS232 Control of power supply output voltage and current with readback to the computer of output voltage and current resolution of setting and read back is 12 bit.  
Designed to operate with any pc type computer using serial communications interface. No other external programs are required Resident program is easily configured by the factory to customers specific requirement. up to 8 input and 8 output control lines available for control and monitoring functions. \$875.00  
Price is for basic controller providing output control of the voltage and current, and read back of the voltage and current.



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