

## Fluke 408B 6,000V@20mA Power Supply

## GENERAL DESCRIPTION

The Fluke Model 408B High Voltage DC Power Supply is capable of providing an output of 0 to $6,000 \mathrm{Vdc}$ at 0 to 20 mA . The output voltage is selected by four decade switches and a vernier potentiometer. The instrument may be operated with either positive or negative output terminal grounded, as selected by a front-panel switch. Overcurrent protection is provided to return the supply to standby operation in the event of excessive load current.

The Model 408B is a hybrid design utilizing silicon transistors for the amplifier circuitry and a vacuum tube for the necessary high voltage series passing element. A time-delay relay is incorporated in the input circuitry, which prolongs the life of the high voltage passing tube. The reference element is a highly stable temperature compensated gas tube.

The package design provides for adequate cooling at high ambient temperatures without the use of cooling fans. Rubber feet are provided for bench top operation to per mit unrestricted air flow through the bottom cover air vents. The front panel is punched for mounting in a standard 19 inch rack. Side panels are tapped for Jonathan \#130 quick disconnect chassis slides or other rack mounting supports.

## SPECIFICATIONS

## Electrical

OUTPUT VOLTAGE
OUTPUT CURRENT
OUTPUT POLARITY
to +-6,000 VDC

LINE REGULATION

LOAD REGULATION
STABILITY
RESOLUTION
RIPPLE
VOLTAGE CALIBRATION
0 to 5000 V in 5 steps of 1000 V
0 to 900 V in 9 steps of 100 V
0 to 90 V in 9 steps of 10 V
0 to 9 V in 9 steps of 1 V
0 to 1.2 V vernier
CALIBRATION
$+/-0.25 \%$ or 250 mV (which-ever is greater) with vernier at zero
ACCURACY
RESETABILITY
RECOVERY TIME
WARMUP TIME
OVERCURRENT TRIP

METER
OUTPUT CONNECTORS INPUT POWER

100/115/230 VAC +/-10\%, 50-5000 Hz, approx. 300 VA at full output

## MECHANICAL

| HUMIDITY | 0 to 80\% |
| :---: | :---: |
| OPERATING TEMPERATURE RANGE | $0^{\prime} \mathrm{C}$ to $50{ }^{\prime} \mathrm{C}$ |
| STORAGE TEMPERATURE RANGE | $-200{ }^{\prime} \mathrm{C}$ to $+70^{\prime} \mathrm{C}$ |
| ALTITUDE, OPERATING | 0 to $10,000 \mathrm{ft}$ |
| ALTITUDE, NON-OPERATING | 0 to $50,000 \mathrm{ft}$ |
| VIBRATION | Meets MIL-T-945A |
| SHOCK | Meets MIL-E-4970A (20 g's, 11 mSec in three principal axis) |
| TEMPERATURE COEFFICIENT OF OUTPUT | Less than 20 ppm per ' C from $+10{ }^{\text {' }} \mathrm{C}$ to $+400{ }^{\text {' }} \mathrm{C}$ |
| SIZE | 19 " wide x $8-3 / 4^{\prime \prime}$ high x $15^{\prime \prime}$ behind panel (rack mount with resilient feet for bench use) |
| WEIGHT | Approximately 59 pounds |

