

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 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	0 to +/-6,000 VDC
OUTPUT CURRENT	0 to 20 mA
OUTPUT POLARITY	+ or - grounded via front panel switch
LINE REGULATION	0.001% or 2 mV (whichever is greater) for 10% line change from nominal
LOAD REGULATION	0.001% or 5 mV (whichever is greater) for full load change
STABILITY	+/-0.005% per hour; +/-0.02% per day after warmup
RESOLUTION	5 mV
RIPPLE	Less than 1 mV RMS; less than 5 mv peak-to-peak
VOLTAGE CALIBRATION	0 to 5000V in 5 steps of 1000V 0 to 900V in 9 steps of 100V 0 to 90V in 9 steps of 10V 0 to 9V in 9 steps of 1V 0 to 1. 2V vernier
CALIBRATION ACCURACY	+/-0.25% or 250 mV (which-ever is greater) with vernier at zero
RESETABILITY	+/-0.05% or 50 mV (whichever is greater)
RECOVERY TIME	Within 50 uSec
WARMUP TIME	30 minutes
OVERCURRENT TRIP	Set to latch off at 25 mA load current. Internally adjustable from 5 to 25 mA
METER	6000-0-6000 vdc (+/-3%)
OUTPUT CONNECTORS	MS3102A-18-16S front and rear (one mating connector supplied)
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' C to 50' C
STORAGE TEMPERATURE RANGE	-200' C to +70' C
ALTITUDE, OPERATING	0 to 10,000 ft
ALTITUDE, NON-OPERATING	0 to 50,000 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' C to +400' C
SIZE	19" wide x 8-3/4" high x 15" behind panel (rack mount with resilient feet for bench use)
WEIGHT	Approximately 59 pounds

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