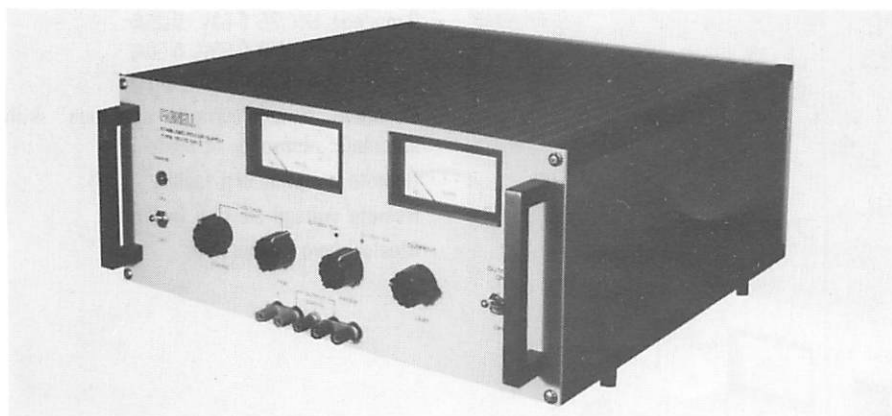


BENCH POWER SUPPLIES

laboratory bench power supply TSV 70



High performance
0-70V, 5A or 0-35V, 10A output ranges
Continuously variable over both ranges
Remote sensing facility
Overload protection

The TSV 70 laboratory bench power supply is a source of stabilised d.c. voltage continuously variable over two ranges, 0 to 70 volts at 0 to 5 amps or 0 to 35 volts at 0 to 10 amps, selected by a switch.

A switch isolates the output voltage which may be selected by coarse and fine controls prior to connection to the load. Conversely the load may be disconnected by the same switch without switching off the mains supply. Output voltage and current are monitored independently by dual scale meters.

Remote sensing facilities are provided to ensure optimum performance when supplying distant

loads. Overload protection is by adjustable constant current limiting.

A rack mounting version, the TSV 70R, is available to special order. The order code for the TSV 70R is 11TSV70R.

Mains input

105, 110, 115, 120, 210, 220, 230, 240 volts $\pm 10\%$
50/60Hz

Output

0-70V, 5A or 0-35V, 10A selected by switch

Line regulation

Output change for a $\pm 10\%$ mains change:
Less than 0.01% +1mV (short term)
Less than 0.05% +5mV (long term, 8 hours)

Load regulation

Output change for a zero to full load change:
Less than 0.01% +1mV (short term)
Less than 0.05% +5mV (long term)

Ripple and noise

Less than 1mV pk-pk at full load ($\Delta f=80\text{kHz}$)

Output impedance

0.05 Ω at 10kHz, typical

Transient recovery time

Less than 20 μs typical for output to recover within 50mV following a zero to full load change of 1 μs rise time

Temperature coefficient

0.02% per $^{\circ}\text{C}$, typical

Operating temperature range

0 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$

Storage temperature range

-20 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$

Cooling

Internal fans provide forced air cooling. Thermal trip protection

Dimensions (mm)

Height 177.8 Width 430 Depth 410

Weight (kg)

26.2

NATO stock number

6625-99-645-8996

ORDER CODE: 11TSV70