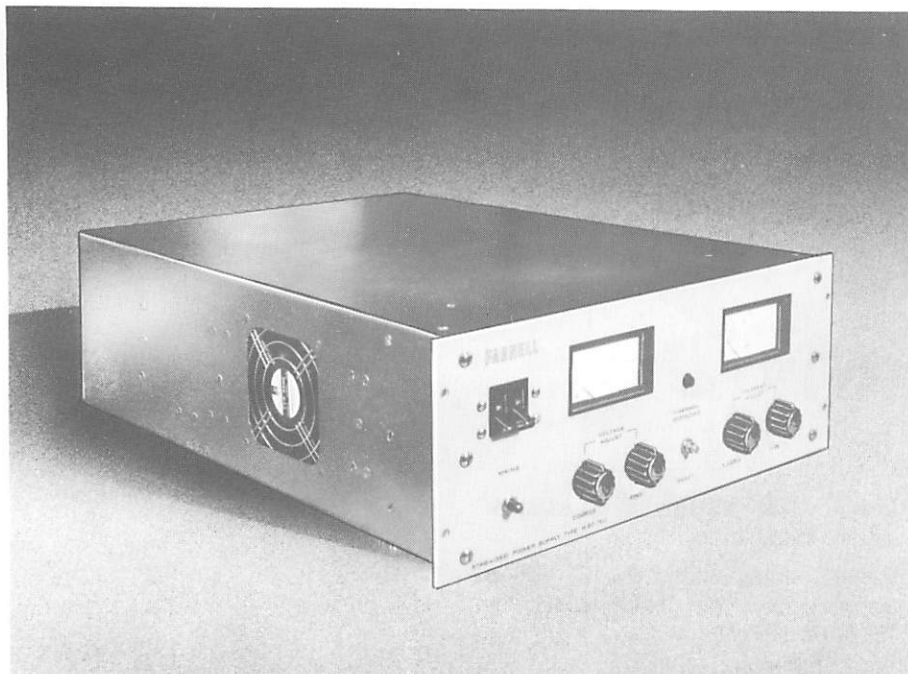


# BENCH POWER SUPPLIES

## heavy duty power supplies H Series

A  
8



3 models: H60/25 0-60V, 0-25A  
 H60/50 0-60V, 0-50A  
 H30/100 0-30V, 0-100A

Constant voltage/current operation with automatic crossover of mode  
 Remote programming facility  
 Remote voltage sensing facility  
 Master/slave connections

These heavy duty, regulated d.c. supplies will provide either constant voltage or constant current. Changeover of operating mode is automatic, the transition point being determined by the settings of the voltage and current controls and the load resistance.

A thermal trip is fitted as a safeguard and if the airflow is restricted or a fan failure occurs, the unit automatically shuts-down. Indication of shutdown is provided by the illumination of a lamp in the centre of the front panel. A reset button is provided to return the unit to normal

operation when the cause of over-heating has been rectified.

Designed for systems and laboratory use, they are intended for mounting into a 19" rack or cubicle. Preregulation and forced air cooling by internal fans has enabled minimum height.

### Mains input

H60/25 & H60/50

0-220, 240 volts  $\pm 7\frac{1}{2}\%$  50/60Hz. Normally set to 240V. 110V NOT available.

H30/100

0-209 to 258 volts, 50/60Hz 28A r.m.s.

110V NOT available

### Output

Model	Voltage	Current
H60/25	0-60V	0-25A
H60/50	0-60V	0-50A
H30/100	0-30V	0-100A

### Line regulation

Output change for a  $\pm 7\frac{1}{2}\%$  mains change:

Constant voltage less than 0.01% +200 $\mu$ V

Measured at terminals J and K

Constant current less than 0.01% +2.4mA

### Load regulation

Output change for a zero to full load change:

Constant voltage less than 0.01% +200 $\mu$ V

Measured at terminals J and K

Constant current less than 0.01% +2.4mA

### Stability (typical)

Constant voltage.

Total drift for 8 hours after 1 hour warm up period at constant ambient temperature is less than 0.02% +2mV.

Constant current.

As above, less than 0.02% +5mA

### Ripple and noise

At full load ( $\Delta f=10$ kHz):

Constant voltage less than 1mV r.m.s.

Constant current less than 10mA r.m.s. (50mA on

100A model)

### Output impedance (C.V.) typical

Less than

0.001 $\Omega$  from d.c. to 100Hz

0.01 $\Omega$  from 100Hz to 1kHz

0.2 $\Omega$  from 1kHz to 100kHz

2 $\Omega$  from 100kHz to 1MHz

### Transient recovery time

Less than 50 $\mu$ s typical for output to recover

within 20mV following a zero to 50% load change

of 1 $\mu$ s rise time

### Temperature coefficient

Constant voltage 0.02% +1mV per  $^{\circ}$ C, typical

Constant current 0.02% +5mA per  $^{\circ}$ C, typical

### Operating ambient temperature range

0 $^{\circ}$ C to +50 $^{\circ}$ C

### Storage temperature range

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

### Cooling

Forced air cooling by internal fans. Thermal overload protection

### Dimensions (cm)

H60/25

Height 17.8 width 48.25 depth 50.8

H60/50

Height 17.8 width 48.25 depth 62.0

H30/100

Height 26.7 width 48.25 depth 51.0

### Weight (kg)

H60/25 H60/50 H30/100

60 79 86

### NATO stock numbers

H60/25 6130-99-626-6214

H60/50 6130-99-653-1304

### Order codes

H60/25 11H6025

H60/50 11H6050

H30/100 11H30100

**ORDER CODE: see above**