

P SERIES MODEL PSD3510A

FEATURES

Compact, single output linear supply

Delivers a full 10A over 0 to 35V range

Constant voltage or constant current output

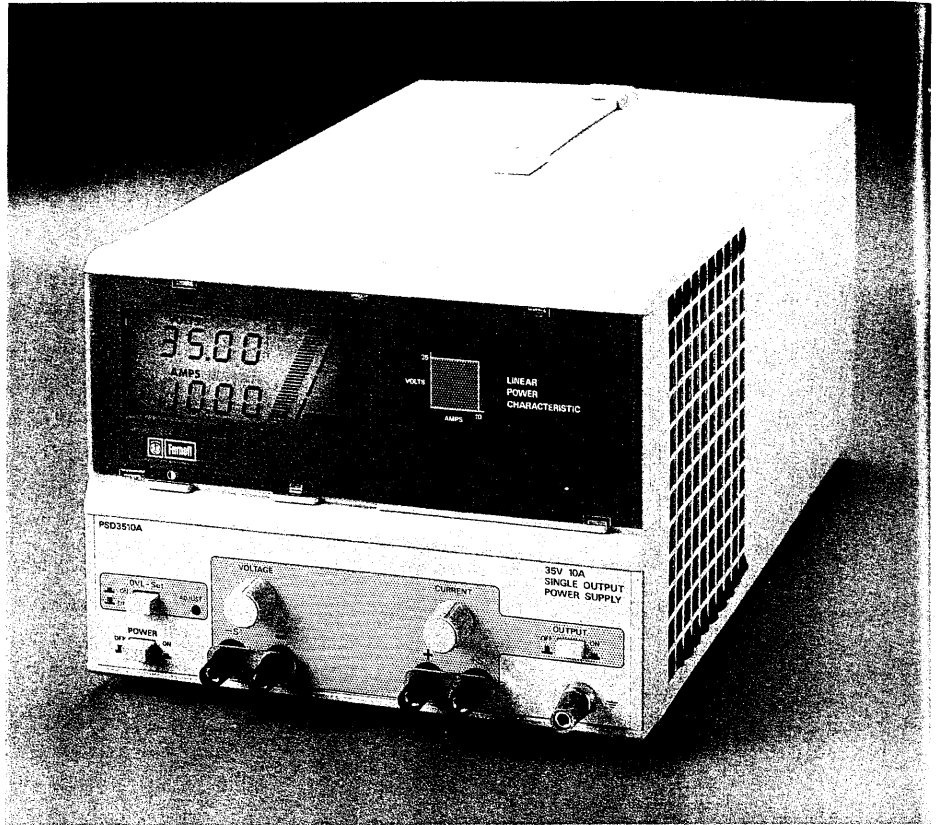
10-turn controls for precise settings

4-digit LCD displays of voltage and current.
Simultaneous indication of voltage, current or power on analogue bar graph.

Output enable switch enables voltage or current preview

Overvoltage protection can be viewed and preset via the front panel

The output is remotely programmable by voltage or resistance via the back panel



The PSD3510A is a single output, linear regulated bench power supply for general purpose use. From an AC mains input of 220/240V nominal it will supply a well regulated and stable DC output. This may be set accurately in the range 0 to 35V by means of 10-turn controls and a full 10A is at the disposal of the user at any setting.

The unit features a custom LCD which incorporates a twin 4-digit display showing both voltage and current. There is also a bargraph so simultaneous analogue indication of voltage, current or power is also provided. The required output may be set and viewed prior to being applied via an output enable switch. Overvoltage protection can also be viewed and preset on the front panel. The output is remotely programmable with a controlling voltage or with resistance values.

Modern circuit techniques and special transformer design has allowed the construction of a compact and relatively light weight unit which should appeal to both industrial and educational users.

SPECIFICATION

AC input 220/240V \pm 10%, 50/60Hz

Output 0 to 35V at 10ADC

Line regulation for a \pm 10% change

CV: $<0.01\% + 2\text{mV}$

CI: $<0.01\% + 200 \mu\text{A}$

Load regulation for a 0-100% change

CV: $<0.01\% + 2\text{mV}$

CI: $<0.1\% + 2\text{mA}$

Ripple and noise ($\Delta f=80\text{kHz}$)

$<2.5\text{mV pk-pk}$

Transient response (CV mode typical)

$<1\text{ms}$ for output to recover within 50mV following a 10-100% load change of 1 μs risetime

Temperature coefficient 0.02% per $^{\circ}\text{C}$

Metering back-lit LCD with two 4-digit displays for voltage and current.

Analogue bargraph, status flags and adjustable viewing angle

Meter range 0 to 38V and 0 to 10.6A approx.

Meter accuracy Volts: $\pm 0.2\% \pm 0.1\%$ fsd

Current: $\pm 0.3 \pm 0.1\%$ fsd

Meter resolution Volts: 10mV

Current: 10mA

Remote sensing maintains nominal voltage at load by correcting for up to 0.5V drop in each output lead

Protection input and output fuses. Variable current limit. Reverse voltage protection.

Forward voltage protection (65V).

Overvoltage crowbar. Mains high/low detection disables output.

Operating ambient temperature range -5 to $+50^{\circ}\text{C}$

Storage temperature range -40 to $+70^{\circ}\text{C}$

Cooling Fan cooled. Draws sides, exhausts rear

Safety compliance BS 4743 (IEC348)

Mechanical 170H x 215W x 400Dmm. 9.7 kg

ORDER CODE
1EAPSD3510A

Bench Power Supply