

These compact autoranging bench or systems power supplies use a switch-mode topology to provide a wide range of adjustable voltage and current combinations within a 3 kilowatt power envelope.

Output may be controlled manually or via the GPIB (with option/H). Constant voltage or constant current is available and operating modes are local or bus, remote sensing, simple remote programming by voltage or resistance, auto parallel, auto series and auto tracking. Parallel/Series connection is possible for systems requiring more power or higher voltages. AP units are simple to rack mount.

See also COMMON SPECIFICATION

**AC INPUT**

230V +/-14%. 48-63Hz. with power factor correction. 115V versions not available. Max rms input current 20A.

**OUTPUT CONTROL**

1. Manual using 10-turn controls
2. Voltage or resistance programming
3. High resolution GPIB programming (option /H)

**LINE REGULATION**

For a 10% change  
 <0.01% +3mV in CV mode  
 <0.01% + 15mA in CI mode

**LOAD REGULATION**

For a zero to 100% change  
 <0.01% +5mV in CV mode  
 <0.1% +15mA in CI mode

**RIPPLE AND NOISE**

(Δf=20Hz to 20MHz)  
 CV: 4mV rms/40mV pk-pk typical  
 CI: 75mA rms typical

**OUTPUT IMPEDANCE**

0.1mΩ at DC typical

**TRANSIENT RESPONSE**

(CV typical) <2ms for recovery within 100mV following change in output current of 10% of max. rating at that voltage.

**PROGRAMMING**

Resistance: 0-4k7Ω provides zero to V/I max. Voltage: 0-5V provides zero to V/I max. Response time: up 120ms, down 400ms (full load)

**REMOTE INHIBIT TERMINAL**

2 to 60V input shuts down output

**REMOTE SENSING**

Maintains nominal voltage at the load

**METERING**

Twin 3 digit LED panel meters for volts and amps. Twin 20-segment bargraphs to assess voltage and current capacity within power envelope.

**LED FLAGS**

For mode indication, trips etc.

**PROTECTION**

Inherent via CV/CI. Adjustable overvoltage limit (OVL)  
 Overtemperature (OT) protection.  
 Input fuse.

**OPERATING AMBIENT TEMP. RANGE**

0 to 40°C

**STORAGE TEMPERATURE RANGE**

-20 to +60°C

**COOLING**

Fan assisted. Draws front, exhausts rear.

**DIMENSIONS/WEIGHT**

(4U) H177mm (7 3/4") x W435mm (17") x D673mm (26 1/2")  
 23kg (50.6lbs).

**ORDER CODES/DESCRIPTIONS**

- AP30250A AP30-250 Power supply
- AP60150 AP60-150 Power supply
- AP10090 AP100-90 Power supply
- Option/R for Rack Mounting Kit



**3kW power limit:**  
**AP30-250 0-30V/0-250A**  
**AP60-150 0-60V/0-150A**  
**AP100-90 0-100V/0-90A**

**OUTPUT CHARACTERISTICS**

