

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 1 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% or 115V +/-14% selectable. 48-63Hz.

#### 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% +5mA in CI mode

#### LOAD REGULATION

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

#### RIPPLE AND NOISE

( $\Delta f=20\text{Hz}$  to  $20\text{MHz}$ )  
 CV: 4mV rms/40mV pk-pk typical  
 CI: 25mA rms typical

#### OUTPUT IMPEDANCE

0.2m $\Omega$  at DC typical

#### TRANSIENT RESPONSE

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

#### PROGRAMMING

Resistance: 0-4k7 $\Omega$  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 at the voltage 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

(3U) H145mm (5  $\frac{3}{4}$ " ) x W435mm (17" ) x D520mm (20  $\frac{1}{2}$ " )  
 16kg (35.2lbs)

#### ORDER CODES/DESCRIPTIONS

**AP3080** AP30-80 Power supply  
**AP6050** AP60-50 Power supply  
**AP10030** AP100-30 Power supply  
**Option/R** for Rack Mounting Kit  
**Option/H** for GPIB



#### 1kW power limit:

**AP30-80 0-30V/0-80A**

**AP60-50 0-60V/0-50A**

**AP100-30 0-100V/0-30A**

#### OUTPUT CHARACTERISTICS

