

HP 6205C Features:

- Dual range
- 10-Turn voltage controls
- Auto-tracking

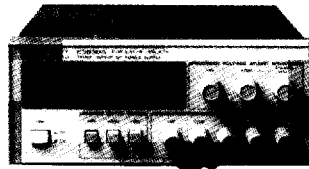
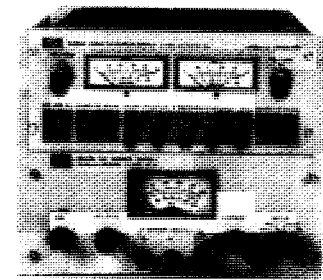
HP 6209B Features:

- 320 V
- Remote sensing

HP E3630A Features:

- Low noise/excellent regulation
- Auto-tracking
- Two digital meters

HP 6205C



HP E3620A, E3630A

HP 6209B

HP 6205C Dual-Output Model

This dual output power supply for the bench is equipped with 10-turn output voltage controls, volt-ampere meter, meter function and range switch, and front and rear output terminals. In addition, an output range switch selects a high or low output-voltage range.

The HP 6205C combines the versatility of a dual output power supply with the flexibility of auto-parallel and auto-series operation. In addition, with its auto-tracking capability, the supply can conveniently deliver opposite polarity voltages ($\pm 20\text{V}$, $\pm 40\text{V}$).

A constant voltage/current-limiting supply, the HP 6205C is short-circuit-protected.

HP 6209B Single-Output Model

This CV/CC power supply covers a range up to 320 V. It is equipped with 10-turn voltage and current controls and front- and rear-panel terminals. Units can be bench-operated or rack-mounted individually or in pairs by using accessory rack-mounting hardware. The supply is 216 mm W \times 89 mm H \times 317 mm D (8.50 in \times 3.50 in \times 12.50 in) and weighs 4.5 kg (10 lb).

E3620A and E3630A Multiple-Output Models

The HP E3620A dual output and the HP E3630A triple output supplies have a 0.01% load and line regulation which keep the outputs steady with changes of the power line and load. This supply specifies both normal mode voltage noise and common mode current noise.

The low normal mode noise specification 350 μV rms assures clean power for precision circuitry, and the low common mode current specification of 1 μA rms minimizes line frequency current injection.

One voltage control on the E3630A adjusts the +20 V and -20 V simultaneously. The outputs track each other to within 1% to operate circuit requirements balanced voltages.

All the outputs on these models are protected against overload and short-circuit damage. Protection circuits prevent output voltage overshoot when supply is turned on and off.

The E3620A and E3630A have separate digital panel meters to monitor both the voltage and current of any output simultaneously. A LED indicator for each output lets the user know when any supply is overloaded.

The E3620A is 213 mm W \times 88 mm H \times 400 mm D (8.4 in \times 3.6 in \times 15.8 in) and weighs 5.5 kg (12.1 lbs).

The E3630A is 213 mm W \times 88 mm H \times 213 mm D (8.4 in \times 3.6 in \times 12.6 in) and weighs 3.8 kg (8.4 lbs).



Specifications (at 0° to 55° C unless otherwise specified)

| | | HP 6205C | | HP 6209B | E3620A | E3630A |
|---|--------------|--------------------------------|-----------------------|----------------------------------|----------------------------------|----------------------------------|
| Number of outputs | | 2 | | 1 | 2 | 3 |
| Number of output ranges | | 2 | | 1 | 1 | 1 |
| Output ratings | | Range 1 | Range 2 | | | |
| | Output 1 | 0 to 20 V, 0 to 0.6 A | 0 to 40 V, 0 to 0.3 A | 0 to 320 V, 0 to 0.1 A | 0 to 25 V, 0 to 1 A | 0 to 6 V, 0 to 2.5 A* |
| | Output 2 | 0 to 20 V, 0 to 0.6 A | 0 to 40 V, 0 to 0.3 A | — | 0 to 25 V, 0 to 1 A | 0 to +20 V, 0 to 0.5 A |
| | Output 3 | — | — | — | — | 0 to -20 V, 0 to 0.5 A |
| | Power (max) | 24 W | | 32 W | 50 W | 35 W |
| Load regulation | | 0.01% + 4 mV | | 0.01% + 2 mV | 0.01% + 2 mV | 0.01% + 2 mV |
| Ripple and noise | rms | 200 μV | | 1 mV | 350 μV | 350 μV |
| | peak-to-peak | 1 mV | | 40 mV | 1.5 mV | 1.5 mV |
| Control mode | | CV/CL | | CV/CC | CV/CL | CV/CL |
| Resolution (minimum change using front-panel controls) | Voltage | 10 mV | | 40 mV | 10 mV | 10 mV |
| | Current | Fixed | | 200 μA | Fixed | Fixed |
| Input power | | 104 to 127 Vac 48 to 400 Hz | | 115 Vac \pm 10% 48 to 63 Hz | 115 Vac \pm 10% 47 to 63 Hz | 115 Vac \pm 10% 47 to 63 Hz |
| Options available | | 910, 011, 028, 040 | | 028, 910 | OE3, OE9 | OE3, OE9 |
| Price | | \$1,530 | | \$1,685 | \$500 | \$500 |

*Derate max. output current from 2.5 A at 6 V to 1 A at 0 V

☎ For off-the-shelf shipment, call 800-452-4844.

Key Literature

1994/95 Power Products Catalog, p/n 5091-9593.
HP Basic Instrument Catalog, p/n 5952-9359.

Ordering Information

(See tables for which options are available on specific models)

| | |
|---|-------|
| Opt OE3 230 Vac \pm 10%, 47- to 63-Hz Input | \$0 |
| Opt OE9 100 Vac \pm 10%, 47- to 63-Hz Input. | \$0 |
| For use in Japan. | |
| Opt 011 Overvoltage Protection for HP 6205C | \$214 |
| Opt 028 230 Vac \pm 10%, Single-Phase Input | \$0 |
| Opt 040 Resistance Programming Interface | \$182 |
| Opt 910 Additional operating and service manual | \$15 |

Accessories

| | |
|--|-------|
| HP 14513A Rack Kit for one HP 6209B supply | \$133 |
| HP 14523A Rack Kit for two of the above power supplies | \$87 |

For the most current prices and product information, contact your local Hewlett-Packard sales office—see page 691.