

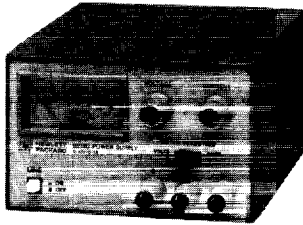
POWER SUPPLIES

Laboratory: Single & Multiple Output, 10W to 38W
Models 6200C-6218C and 6234A-6237B

479

- HP 6212C-6218C . . . 10 watts output
- Compact, impact-resistant stackable case
- Short-circuit proof

- HP 6200B-6209B . . . 30 watts output
- Auto series, parallel, and tracking
- Remote sensing



Single Output: HP 6212C-6218C



Single Output: HP 6200B-6209B



Dual Output: HP 6234A

Description—Single Output Models

Models 6212C-6218C

These popular low-cost CV/CC bench supplies are designed for general laboratory use and are equipped with front-panel mounted voltage and current controls, a combination volt/ammeter, and output binding posts. Output voltage and current are continuously variable, via coarse and fine controls from 0 to 15% above the maximum rated output. A switch selects either output voltage or current for display on the panel meter.

Load connections are made via three binding posts. Either the + or the - post may be grounded through an adjacent GND terminal or the supply may be operated floating at up to 300 volts above ground.

The supplies can also be operated as constant current sources with 500 μ A load regulation. All of these models can be connected in series or parallel.

The molded, impact-resistant case includes an interlocking feature for stacking several units vertically, thus minimizing bench space required for multiple supplies. Alternatively, up to three units can be mounted side by side in a 19" rack using Rack Mounting Kit HP 14521B. These supplies measure 86 H x 133 W x 368 mmD (3.40" x 5.25" x 8") and weigh 2 kg (4.4 lb).

Models 6200B-6209B

This series of low-cost bench supplies includes three models covering an output voltage range from 0–20 V to 0–320 V. All models are equipped with ten-turn voltage and current controls, (except the HP 6206B, which does not have a current control), volt/ampere meter, meter function/range switch, and front and rear output terminals. In addition, on the dual-range models (HP 6200B and 6206B), an output range switch permits the selection of either a high or a low output voltage range.

The constant voltage/current limiting supply, HP 6206B, is short-circuit protected by a fixed current limiting circuit which is activated at approximately 110% of rated load current. The current-limit point can be reduced by changing the value of a single internal resistor. For the constant voltage/constant current supplies, ten-turn current controls allow the current-limit point to be set to any value within the current rating. Using these controls the CV/CC supplies can also be operated as constant-current sources.

Units may be bench operated or rack mounted individually or in pairs using accessory rack mounting hardware.

All models in this group of supplies measure 89 H x 216 W x 317 mm D (3.50" x 8.50" x 12.50") and weigh 4.5 kg (10 lb).

Description—Dual Output Models

Model 6234A

Model 6234A is a low-cost, dual-output bench power supply with two independently adjustable and isolated power sources in one compact unit. Both of the dc power sources are of the constant voltage/current limit type with each output voltage being adjustable continuously over a 0 to 25 V range. The maximum current available per output is 0.2 A and is limited automatically to prevent overload.

The HP 6234A offers considerable flexibility to the user with output voltages that can be arranged to provide identical or different voltages in any polarity combination with respect to 0 or other common positive or negative voltage points. The outputs can also be connected in series to provide up to 50 V at 0.2 A. Both sources are fully isolated to permit either of the output terminals to be grounded.

With pushbutton switches, users can select either voltage or current for each output to be monitored on the unit's meter. Other features include two multiple-turn controls for precise voltage setting, regulation to 0.01%, and ripple and noise of less than 200 microvolts rms.

With dimensions of only 93 mm high, 157 mm wide and 210 mm deep (3.64" x 6.17" x 8.25"), the HP 6234A supply takes up a minimum amount of bench space. Its weight is 2.3 kg (5 lb). The unit can be powered from a 115 V or an optional 230 V, 47-63 Hz ac input, (Option 028).

Model 6205C

This low-cost bench supply is equipped with ten-turn output voltage controls, volt/ampere meter, meter function/ range switch, and front and rear output terminals. In addition, an output range switch permits the selection of either a high or a low output voltage range.

Model 6205C combines the versatility of a dual power supply with the flexibility of auto-parallel and auto-series operation to extend the output ratings of this supply to 20 V/1.2 A, 40 V/0.6 A, and 80 V/0.3 A. In addition, using the supply's auto-tracking capability, opposite

Specifications

RATINGS		PERFORMANCE							GENERAL	
DC Output		HP Model	Load Effect	Source Effect	PARD rms/p-p	Control Mode and Resolution	Remota Control Coefficients	Power 115 V ac ± 10%	Options	Price
Volts	Amps									
SINGLE OUTPUT—10 WATTS										
0-10	0-1	6214C	4 mV	4 mV	200 μV/1 mV	CV/CC 5mV/75μA	**	48-440 Hz 0.3 A, 28 W	28	\$370
0-25	0-0.4	6216C	4 mV	4 mV	200 μV/1 mV	CV/CC 5mV/20μA	**	48-440 Hz 0.3 A, 28 W	28	\$370
0-50	0-0.2	6218C	4 mV	4 mV	200 μV/1 mV	CV/CC 10mV/10μA	**	48-440 Hz 0.3 A, 28 W	28	\$370
0-100	0-0.1	6212C	8 mV	4 mV	200 μV/1 mV	CV/CC 20mV/10μA	**	48-440 Hz 0.3 A, 28 W	28	\$450
SINGLE OUTPUT—UP TO 30 WATTS										
Dual range 0-20 or 0-40	0-1.5 0-0.75	6200B	0.01% + 4 mV	0.01% + 4 mV	200 μV/1 mV	CV/CC 10 mV/2 mA	2000/V ± 1% 0.5 kΩ/A ± 10% or 1 kΩ/A ± 10%	48-440 Hz 0.9 A, 70 W	11, 28	\$825
Dual range 0-30 or 0-60	0-1 0-0.5	6206B	0.01% + 4 mV	0.01% + 4 mV	200 μV/1 mV	CV/CL 10 mV/*	3000/V ± 1%	48-440 Hz 1 A, 66 W	11, 28	\$825
0-320	0-0.1	6209B	0.02% + 2 mV	0.02% + 2 mV	1 mV/40 mV	CV/CC 40 mV/200 μA	3000/V ± 1% 150 kΩ/A ± 10%	48-63 Hz 1 A, 60 W	28	\$975
DUAL OUTPUT—10 WATTS										
Dual output 0-25 and 0-25	0.2 0.2	6234A	0.01% + 1 mV	0.01% + 1 mV	200 μV/1 mV	CV/CL	**	104-127 Vac 47-63 Hz 0.26A, 35 W	28	\$550
DUAL OUTPUT—24 WATTS										
Two dual ranges 0-20/0-40 and 0-20/0-40	0-0.6/0.3 0-0.6/0.3	6205C	0.01% + 4 mV	0.01% + 4 mV	200 μV/1 mV	CV/CL 10 mV/*	2000/V ± 1%	48-440 Hz 0.5 A, 50 W	11, 28 40	\$825
TRIPLE OUTPUT—13 WATTS										
Triple output 0 to 6 and 0 to 18 and 0 to -18	0-1 0-0.2 0-0.2	6235A	8 mV 10 mV 10 mV	8 mV 15 mV 15 mV	1 mV/5 mV 1 mV/5 mV 1 mV/5 mV	CV/CL	** ** **	47-63 Hz 0.26 A, 35 W	28	\$600
TRIPLE OUTPUT—35 WATTS*										
Triple output 0 to +6 and 0 to +20 and 0 to -20	2.5 0.5 0.5	6236B	0.01% + 2 mV	0.01% + 2 mV	350 μV/1.5 mV	CV/CL 70 mV/*	**	104-127 Vac 47-63 Hz 1.2 A, 112 W	100 120 220 240	\$800
TRIPLE OUTPUT—38 WATTS*										
Triple Output 0 to +18 and 0 to +20 and 0 to -20	1 0.5 0.5	6237B	0.01% + 2 mV	0.01% + 2 mV	350 μV/1.5 mV	CV/CL 70 mV/*	**	104-127 Vac 47-63 Hz 1.2 A, 112 W	100 120 220 240	\$800

*fixed current limit
 **remote control not available
 ★ac input voltage option must be specified when ordering

Option Descriptions

011: internal overvoltage protection crowbar. Protects delicate loads against power supply failure or operator error. Dual output model has dual crowbar.

HP 6200B, 6206B add \$102
 HP 6205C add \$204
 NC

028: 230 Vac ± 10%, single phase input. Consists of reconnecting power transformer taps, and other components where necessary.

040: Multiprogrammer interface. Prepares HP 6205C power supplies for resistance programming by the HP 6940B or 6942A Multiprogrammer add \$78

100: 87-106 Vac, 47-63 Hz, single phase input NC

120: 104-127 Vac, 47-63 Hz, single phase input NC
220: 191-233 Vac, 47-63 Hz, single phase input NC
240: 208-250 Vac, 47-63 Hz, single phase input NC
910: one additional operating and service manual is shipped with each power supply
 HP 6200B-6237B add \$5.20

Accessories

HP 14513A: rack kit for one HP 6200-6209B, 6236B, or 6237B supply \$57
 HP 14523A: rack kit for two of the above power supplies \$31
 HP 14521C: rack kit for one, two or three HP 6212C-6218C power supplies \$87

☎ Fast-Ship product — see page 766.