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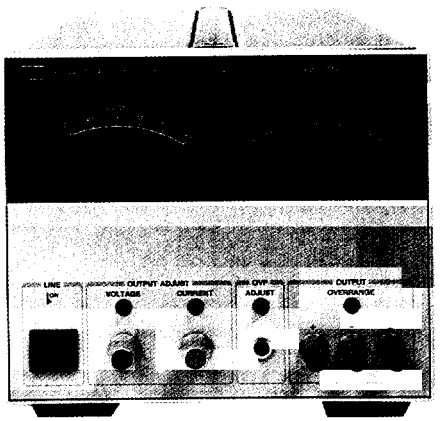
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POWER SUPPLIES
Other HP-IB Programmable Products
HP 6002A, 59501B

- 200-watt autoranging dc output
- HP-IB option for either voltage or current control
- Built-in overvoltage protection



DESIGNED FOR HP-IB SYSTEMS

HP 6002A

Description

The HP 6002A 200-watt autoranging power supply is recommended only for use in existing systems. For new systems, the HP Model 6653A or 6654A 500-watt supplies, or the HP Model 6642A, 6643A, or 6644A 200-watt supplies offer significant advantages in price and performance. The HP Models 6033A and 6038A 200-watt autorangers are also excellent alternatives to the HP Model 6002A.

HP-IB Option

Option 001 is required for HP-IB control of either voltage or current. Selection of the controlled parameter is made via rear-panel manual switches. A 59501B digital-to-analog converter may be used to program current limit, while the internal HP-IB option programs the voltage.

Specifications

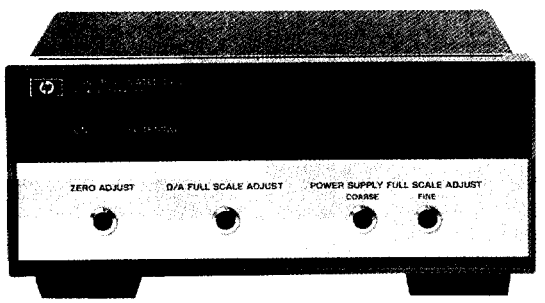
DC output: Voltage and current output can be adjusted from 0 to 50 V, 0 to 10 A, 200 W maximum, by front-panel controls, analog programming, or an optional HP-IB interface
Load regulation: Voltage, 0.01% +1 mV; current, 0.01% +1 mA
Line regulation: voltage, 0.01% +1 mV; current, 0.01% +1 mA
Ripple and noise: 20 Hz to 20 MHz; voltage, 1 mV rms, 10 mV p-p; current, 5 mA rms
Load transient recovery time: 100 μs for output voltage to recover within 15 mV of nominal voltage setting following a load current change of 50% to 100% or 100% to 50% of full load current
Programming response time: Maximum time for output voltage to change between 0 to 99.9% or 100% to 0.1% of maximum rated output voltage. Up-programming: 100 ms. Down-programming: 400 ms at no load, 200 ms at full load.
DC output isolation: 150 Vdc
AC power: 100, 120, 220, or 240 Vac (−13%, +6%), 48 to 63 Hz
Temperature rating: 0° C to 55° C operating, 40° C to 75° C storage. Supply is fan cooled.
Size: 180 mm H × 212 mm W × 422 mm D (6.97 in × 8.36 × 16.6 in)
Weight: Net, 14.5 kg (32 lb); shipping, 15.9 kg (35 lb)

HP-IB Option Specifications

Output	Range	Voltage	Current
Output ranges	hi	0 to 50 V	0 to 10 A
	lo	0 to 10 V	0 to 2 A
Accuracy	hi	0.2% +25 mV	0.2% +25 mA
	lo	0.2% +10 mV	0.2% +25 mA
Resolution	hi	50 mV	10 mA
	lo	10 mV	2 mA

Ordering Information	Price
HP 6002A Autoranging dc Power Supply	$3,450
Opt 001: HP-IB interface	$585
Opt 800: Rack flange kit for two units	$79
Opt 908: Rack mounting kit for one unit	$84
Opt 910 Extra operating and service manual	$10

- HP-IB control for analog-programmable power supplies
- Unipolar/Bipolar HP-IB digital to analog converter
- Programmable 10-volt dc output



DESIGNED FOR HP-IB SYSTEMS

HP 59501B

Description

The HP 59501B is an isolated digital-to-analog converter designed to provide a convenient interface between the Hewlett-Packard Interface Bus and those HP power supplies that are not equipped with built-in HP-IB control but are capable of being analog voltage controlled. With proper wiring, the built-in isolation devices protect other instrumentation on the HP-IB from damage that could be caused by power supply outputs. A programmable high/low range control improves resolution by ten to one.

The HP 59501B also can be used directly as a low power dc signal source.

Digital to Analog Converter Specifications

DC output voltage: Programmable in high or low ranges within the voltage limits shown below. Output mode is unipolar or bipolar and is selected by a rear-panel switch.
Unipolar: 0 to 9.99 V (low range, 0 to 0.999 V)
Bipolar: −10 to +9.98 V (low range, −1 to +0.998 V)
DC output current: 10 mA maximum
Ripple and noise: 2 mV rms/10 mV p-p
Resolution: unipolar: 10 mV (low range, 1 mV)
bipolar: 20 mV (low range, 2 mV)
Accuracy: Specified at 23° C ±5° C
unipolar: 0.1% +5 mV (low range, 0.1% +1 mV)
bipolar: 0.1% +10 mV (low range, 0.1% +2 mV)

Power Supply Programmer Specifications

In the following specifications, M represents the calibrated full-scale value of the supply being programmed, and P is the actual programmed output. The full-scale value M can be any value within the supply's output range and is calibrated with the HP 59501B programmed to its maximum high-range output.
Accuracy: Specified at 23° C ±5° C
Unipolar: 0.05% M +0.25% P (low range, 0.01% M +0.25% P)
Bipolar: 0.1% M +0.25% P (low range, 0.02% M +0.25% P)
Isolation: 600 Vdc between HP-IB data lines and output terminals
Power: 100, 120, 220, or 240 Vac (−13%, +6%), 47 to 63 Hz, 10 VA (selectable on rear panel)
Size: 101.6 mm H × 212.9 mm W × 294.6 mm D (4 in × 8.38 in W × 11.6 in D)
Weight: Net, 1.82 kg (4 lb); shipping, 2.27 kg (5 lb)

Ordering Information	Price
HP 59501B HP-IB Isolated D/A Power Supply Programmer	$1,100
Opt 910 Extra operating and service manual	$5.35
HP p/n 5060-0173 rack kit for one unit	$85 ☎
HP p/n 5060-0174 rack kit for two units	$75

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

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