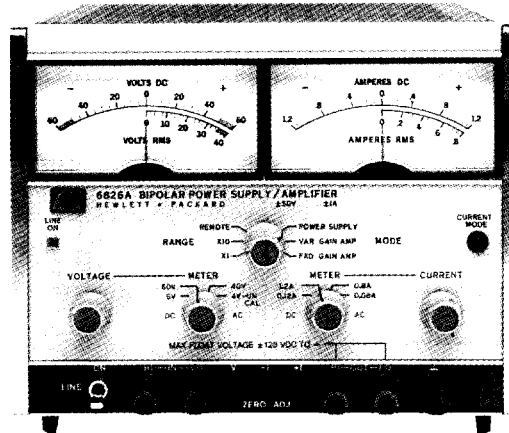


- High-speed remote programming
- Overload protection
- Wideband response
- Bipolar voltage
- Current sink or source



HP 6825A, 6826A, 6827A

### HP 6825A-6827A Power Supply/Amplifiers

The HP 6825A-6827A power supply/amplifiers are general-purpose instruments useful in laboratories engaged in research and development of electronic systems, circuitry, or components. Units can operate as power supplies or power amplifiers. Access to various internal control points expands the operational capabilities of the instruments and lends them to an almost unlimited number of applications.

The HP 6825A-6827A feature dual-range bipolar outputs that are remotely controllable with a resistance, voltage, or current. High-speed programming characteristics adapt the units to a wide variety of laboratory and production testing applications. Because a unit can sink, as well as source current, it can serve as a variable load device.

As a direct-coupled power amplifier, each unit offers a signal-to-noise ratio of approximately 80 dB at full output, with low distortion and a frequency response up to 40 kHz in the fixed-gain mode.

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

		HP 6825A	HP 6826A	HP 6827A	
Output ratings	Volts	-5 to +5 V -20 to +20 V	-5 to +5 V -50 to +50 V	-10 to +10 V -100 to +100 V	
	Amperes	0 to 2.0 A Both ranges	0 to 1.0 A Both ranges	0 to 0.5 A Both ranges	
Ripple and noise	Voltage	rms	10 mV	6 mV	10 mV
		peak-to-peak	30 mV	35 mV	50 mV
	Current	rms	5 mA	0.8 mA	0.4 mA
		peak-to-peak	15 mA	5 mA	5 mA
Transient recovery	Time	100 μs	100 μs	100 μs	
	Level	20 mV	50 mV	100 mV	
Resolution (Supplemental Characteristics)	Voltage	40 mV	100 mV	200 mV	
	Current	6 mA	3 mA	1.5 mA	
Voltage gain (Supplemental Characteristics)	Fixed	1X   4X	1X   10X	2X   20X	
	Variable	0 to 2X   0 to 8X	0 to 2X   0 to 20X	0 to 4X   0 to 40X	
Frequency response (+1, -3 dB)	Fixed gain	dc to 40 kHz	dc to 40 kHz	dc to 30 kHz	
	Variable gain	dc to 15 kHz	dc to 15 kHz	dc to 15 kHz	
Distortion at full output	100 Hz	0.1% THD	0.1% THD	0.1% THD	
	10 kHz	0.5%	0.5%	1%	
Options available		910	910	910	
Price		\$3,875	\$3,875	\$3,875	

### Supplemental Characteristics

**Temperature:** Operating, 0° to 55° C; storage, -40° to 75° C  
**Power:** Switchable, 100, 120, 220, or 240 Vac, -13% +6%, 48 to 63 Hz, 150 W  
**Regulatory Compliance:** Listed to UL 1244; conform to IEC 348  
**Size:** 198 mm W × 155 mm H × 316 mm D (7<sup>7</sup>/<sub>8</sub> in × 6<sup>1</sup>/<sub>2</sub> in × 12<sup>1</sup>/<sub>8</sub> in)  
**Weight:** 8.2 kg (18 lb)

### Key Literature

1994/95 Power Products Catalog, p/n 5091-9593.

### Ordering Information

<b>Option Description</b>	<b>Price</b>
<b>Opt 910</b> Additional Operating and Service Manual	\$15

### Accessories

<b>HP 5060-8762</b> Rackmounting Kit for one or two units	\$180
<b>HP 5060-8760</b> Blank Filler Panel to be used with 5060-8762	\$75

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