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

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° C to 55° C, unless otherwise specified)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>HP 6825A</th>
<th>HP 6826A</th>
<th>HP 6827A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output ratings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volts</td>
<td>0 to 5 V</td>
<td>0 to 5 V</td>
<td>0 to 5 V</td>
</tr>
<tr>
<td>Amperes</td>
<td>0 to 20 A</td>
<td>0 to 10 A</td>
<td>0 to 0.5 A</td>
</tr>
<tr>
<td>Ripple and noise</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>10 mV</td>
<td>6 mV</td>
<td>10 mV</td>
</tr>
<tr>
<td>peak-to-peak</td>
<td>30 mV</td>
<td>35 mV</td>
<td>50 mV</td>
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<tr>
<td>Current</td>
<td>5 mA</td>
<td>0.5 mA</td>
<td>0.4 mA</td>
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<tr>
<td>peak-to-peak</td>
<td>15 mA</td>
<td>5 mA</td>
<td>5 mA</td>
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<tr>
<td>Transient recovery</td>
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</tr>
<tr>
<td>Time</td>
<td>100 μs</td>
<td>100 μs</td>
<td>100 μs</td>
</tr>
<tr>
<td>Resolution</td>
<td></td>
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<tr>
<td>Voltage</td>
<td>40 mV</td>
<td>100 mV</td>
<td>200 mV</td>
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<tr>
<td>Current</td>
<td>6 mA</td>
<td>3 mA</td>
<td>1.5 mA</td>
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<tr>
<td>Voltage gain</td>
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</tr>
<tr>
<td>Fixed</td>
<td>1X</td>
<td>1X</td>
<td>2X</td>
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<tr>
<td>Variable</td>
<td>0 to 2X</td>
<td>0 to 20X</td>
<td>0 to 40X</td>
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<tr>
<td>Frequency response</td>
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<td></td>
</tr>
<tr>
<td>(+1, –3 dB)</td>
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<td></td>
</tr>
<tr>
<td>Fixed gain</td>
<td>dc to 40 kHz</td>
<td>dc to 40 kHz</td>
<td>dc to 30 kHz</td>
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<tr>
<td>Variable gain</td>
<td>dc to 15 kHz</td>
<td>dc to 15 kHz</td>
<td>dc to 15 kHz</td>
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<tr>
<td>Distortion at full output</td>
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<tr>
<td>100 Hz</td>
<td>0.1% THD</td>
<td>0.1% THD</td>
<td>0.1% THD</td>
</tr>
<tr>
<td>10 kHz</td>
<td>0.5%</td>
<td>0.5%</td>
<td>1%</td>
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<tr>
<td>Options available</td>
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<tr>
<td>Price</td>
<td>$3,700</td>
<td>$3,700</td>
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</tr>
</tbody>
</table>

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 x 155 mm H x 316 mm D (7% in x 6% in x 12% in)
Weight: 8.2 kg (18 lb)

Ordering Information

Price

Option Description                      | Price
---------------------------------------|-------
Opt 910 Additional Operating and Service Manual | $15

Accessories

HP 5060-8762 Rackmounting Kit for one or two units | $180
HP 5060-8760 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 454.