Two, three, or four isolated outputs are integrated into one package, conserving rack space and GPIB addresses. Most of the outputs also provide dual ranges, for more current at lower voltage levels. The outputs can be connected in parallel or series to further increase the flexibility that these products offer the system designer.

Programming is done using industry standard SCPI commands. Test system integration can be further simplified be using the VXI Plug&Play drivers. These power supplies help reduce test time with fast up and down programming, which is enhanced by an active downprogrammer which can sink the full rated current.

Application Notes:
10 Practical Tips You Need to Know About Your Power Products 5965-8239E
10 Hints for Using Your Power Supply to Decrease Test Time 5968-6359E
Understanding Linear Power Supply Operation (AN1554) 5980-2291EN
Modern Connectivity - Using USB and LAN 1/0 Converters (AN 1475-1) 5980-0123EN

More detailed specifications at [www.agilent.com/find/6620](http://www.agilent.com/find/6620)
Supplemental Characteristics
for all model numbers

DC Floating Voltage: All outputs can be floated up to ±240 Vdc from chassis ground

Remote Sensing: Up to 1 V drop per load lead. The drop in the load leads is subtracted from the voltage available for the load.

Command Processing Time: 7 ms typical with front-panel display disabled

Down Programming: Current sink limits are fixed approximately 10% higher than source limits for a given operating voltage above 2.5 V

Input Power: 550 W max., 720 VA max.

GPIB Interface Capabilities: SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, D70.

Software Driver: VXIplug&Play

Regulatory Compliance: Listed to UL1244; conforms to IEC 61010-1; carries the CE mark.

Size: 425.5 mm W x 132.6 mm H x 497.8 mm D (16.75 in x 5.22 in x 19.6 in)

Weight: Net, 17.4 kg (38 lb); shipping, 22.7 kg (50 lb)

Warranty Period: One year

Ordering Information

Opt 100 87 to 106 Vac, 47 to 66 Hz Input, 6.3 A (Japan only)
Opt 120 104 to 127 Vac, 47 to 63 Hz
Opt 220 191 to 233 Vac, 47 to 66 Hz, 3.0 A
Opt 240 209 to 250 Vac, 47 to 66 Hz, 3.0 A
Opt 750 Relay Control and DIP/RI
Opt 550 similar to option 750, however the remote inhibit does not latch
* Opt 908 Rack-mount Kit (p/n 5062-3977)
* Opt 909 Rack-mount Kit w/Handles (p/n 5063-9221)
Opt 0L1 Full documentation on CD-ROM, and printed standard documentation package

Accessories

p/n 1494-0059 Rack Slide Kit
E3663A Support rails for Agilent rack cabinets

Agilent Models: 6621A, 6622A, 6623A, 6624A, 6627A

Terminal Strip Detail

Output 2 & 3

Output 1 & 4

Opt 0L2 Extra copy of standard printed documentation package
Opt 0B0 Full documentation on CD-ROM only
Opt 0B3 Service Manual
* Support rails required

More detailed specifications at www.agilent.com/find/6620
Two or four isolated outputs are integrated into one package, conserving rack space and GPIB addresses. Dual ranges allow for more current at lower voltage levels. The outputs can be connected in parallel or series to further increase the flexibility that these products offer the system designer. Programming is done using industry standard SCPI commands and test system integration can be further simplified by using the VXI Plug & Play drivers. These power supplies help reduce test time with fast up and down programming, which is enhanced by the active down-programmer which can sink the full rated current.

These power supplies are very useful on the R&D bench. The accuracy of both the programming and the measurement systems allow precise control and monitoring of prototype bias power. The extensive protection features protect valuable prototypes, including very fast CV/CC crossover. The power supply can be controlled from either the front panel keypad or, for automated testing, from the GPIB.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>25 W output</th>
<th>50 W output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power</td>
<td>Low-range volts, amps 0 to 7 V, 0 to 15 mA</td>
<td>0 to 16 V, 0 to 200 mA</td>
</tr>
<tr>
<td></td>
<td>High range volts, amps 0 to 50 V, 0 to 500 mA</td>
<td>0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A</td>
</tr>
<tr>
<td>Output combinations for each model (total number of outputs)</td>
<td>6625A (2) Precision 1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>6626A (4) Precision 2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6628A (2) Precision —</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>6629A (4) Precision —</td>
<td>4</td>
</tr>
<tr>
<td>Programming accuracy (at 25°C ±5°C)</td>
<td>Voltage 1.5 mV + 0.016% (low) 3 mV + 0.016% (low) 10 mV + 0.016% (high) 10 mV + 0.016% (high)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Current 15 µA + 0.04% (low) 100 µA + 0.04% (high) 185 µA + 0.04% (low) 500 µA + 0.04% (high)</td>
<td></td>
</tr>
<tr>
<td>Readback accuracy (at 25°C ±5°C)</td>
<td>Voltage 0.016% + 2 mV (low) 0.016% + 3.5 mV (low) 0.016% + 10 mV (high) 0.016% + 10 mV (high)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+/-Current 0.03% + 15 µA (low) 0.03% + 130 µA (high) 0.04% + 250 µA (low) 0.04% + 550 µA (high)</td>
<td></td>
</tr>
<tr>
<td>Ripple and noise</td>
<td>Constant voltage rms 500 µV</td>
<td>500 µV</td>
</tr>
<tr>
<td></td>
<td>(peak-to-peak, 20 Hz to 20 MHz, rms, 20 Hz to 10 MHz) peak-to-peak 3 mV</td>
<td>3 mV</td>
</tr>
<tr>
<td></td>
<td>Constant current rms 0.1 mA</td>
<td>0.1 mA</td>
</tr>
<tr>
<td>Load regulation</td>
<td>Voltage 0.5 mV</td>
<td>0.5 mV</td>
</tr>
<tr>
<td></td>
<td>Current 0.005 mA</td>
<td>0.01 mA</td>
</tr>
<tr>
<td>Load cross regulation</td>
<td>Voltage 0.25 mV</td>
<td>0.25 mV</td>
</tr>
<tr>
<td></td>
<td>Current 0.005 mA</td>
<td>0.01 mA</td>
</tr>
<tr>
<td>Line regulation</td>
<td>Voltage 0.5 mV</td>
<td>0.5 mV</td>
</tr>
<tr>
<td></td>
<td>Current 0.005 mA</td>
<td>0.01 mA</td>
</tr>
<tr>
<td>Transient response time change within specifications</td>
<td>Less than 75 µs for the output to recover to within 75 mV of nominal value following a load change</td>
<td></td>
</tr>
<tr>
<td>Supplemental Characteristics (Non-warranted characteristics determined by design and useful in applying the product)</td>
<td>25-watt output</td>
<td>50-watt output</td>
</tr>
<tr>
<td>Average programming resolution</td>
<td>Voltage 460 µV (low) 1 mV (low) 3.2 mV (high) 3.2 mV (high)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Current 1 µA (low) 13 µA (low) 33 µA (high) 131 µA (high)</td>
<td></td>
</tr>
<tr>
<td>OVP</td>
<td>220 mV</td>
<td>220 mV</td>
</tr>
<tr>
<td>Output programming response time</td>
<td>6 ms</td>
<td>6 ms</td>
</tr>
</tbody>
</table>

(time to settle within 0.1% of full scale output, after Vset command has been processed)

More detailed specifications at [www.agilent.com/find/6620](http://www.agilent.com/find/6620)
Application Notes:

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5965-8239E
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Supplemental Characteristics for all model numbers

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Software Driver: VXIPlug&Play
Regulatory Compliance: Listed to UL 1244; conforms to IEC 61010-1.
Size: 425.5 mm W x 132.6 mm H x 497.8 mm D (16.75 in x 5.22 in x 19.6 in)
Weight: 6626A, 6629A: Net, 17.4 kg (38 lb); shipping, 22.7 kg (50 lb) 6625A, 6628A: Net, 15.5 kg (34 lb); shipping, 20.8 kg (46 lb)
Warranty Period: One year

Precision Multiple-Output: 25 W-50 W GPIB

Ordering Information

Opt 100 87 to 106 Vac, 47 to 66 Hz Input, 6.3 A (Japan only)
Opt 120 104 to 127 Vac, 47 to 63 Hz
Opt 220 191 to 233 Vac, 47 to 66 Hz, 3.0 A
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Opt S50 Similar to option 750, however the remote inhibit does not latch
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Support rails required

Accessories
p/n 1494-0059 Rack Slide Kit
E3663AC Support rails for Agilent rack cabinets

More detailed specifications at www.agilent.com/find/6620
Your Requested Excerpt from the
Agilent System and Bench Instruments Catalog 2006
The preceding page(s) are an excerpt from the 2006 System
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this Web site.

In the full System and Bench Instruments Catalog, you will
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