**Precision Measurement, Single-Output: 40 W and 50 W**

Precision low current measurement
Low output noise
High speed programming
GPIB and RS-232 interface
SCPI (Standard Commands for programmable instruments)
VXI plug&play drivers

**Specifications** *(at 0˚ to 55˚C unless otherwise specified)*

<table>
<thead>
<tr>
<th>Single Output System</th>
<th>6611C</th>
<th>6612C</th>
<th>6613C</th>
<th>6614C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Ratings</strong></td>
<td>Voltage/Current</td>
<td>0 to 8 V/0 to 5 A</td>
<td>0 to 20 V/0 to 2 A</td>
<td>0 to 50 V/0 to 1 A</td>
</tr>
<tr>
<td><strong>Programming accuracy</strong> <em>(at 25˚C ±5˚C)</em></td>
<td>Voltage/Current</td>
<td>0.05% +</td>
<td>5 mV/2 mA</td>
<td>10 mV/1 mA</td>
</tr>
<tr>
<td><strong>Ripple and noise</strong></td>
<td>Voltage Normal mode</td>
<td>0.5 mV/3 mV</td>
<td>0.5 mV/3 mV</td>
<td>0.5 mV/4 mV</td>
</tr>
<tr>
<td></td>
<td>Voltage/Current</td>
<td>2 mA</td>
<td>1 mA</td>
<td>1 mA</td>
</tr>
<tr>
<td><strong>dc measurement accuracy</strong> via GPIB or front-panel meters respect to actual output at 25˚C ±5˚C</td>
<td>Voltage</td>
<td>0.03% +</td>
<td>2 mV</td>
<td>3 mV</td>
</tr>
<tr>
<td></td>
<td>Low current range</td>
<td>-20 mA to +20 mA</td>
<td>0.1% +</td>
<td>2.5 µA</td>
</tr>
<tr>
<td></td>
<td>High current range</td>
<td>+20 mA to + rated</td>
<td>0.2% +</td>
<td>0.5 mA</td>
</tr>
<tr>
<td></td>
<td>-20 mA to - rated</td>
<td>0.2% +</td>
<td>1.1 mA</td>
<td>0.85 mA</td>
</tr>
<tr>
<td><strong>Load regulation</strong></td>
<td>Voltage/Current</td>
<td>2 mV/1 mA</td>
<td>2 mV/0.5 mA</td>
<td>4 mV/0.5 mA</td>
</tr>
<tr>
<td><strong>Line regulation</strong></td>
<td>Voltage/Current</td>
<td>0.5 mV/0.5 mA</td>
<td>0.5 mV/0.5 mA</td>
<td>1 mV/0.25 mA</td>
</tr>
<tr>
<td><strong>Transient response time</strong></td>
<td>Less than 100 µs for the output to recover to its previous level (within 0.1% of the voltage rating of the supply or 20 mV, whichever is greater) following any step change in load current of up to 50% of the output current rating of the supply</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Supplemental Characteristics** *(Non-warranted characteristics determined by design and useful in applying the product)*
| Average programming resolution | Voltage/Current | 2 mV/1.25 mA | 5 mV/0.5 mA | 12.5 mV/0.25 mA | 25 mV/0.125 mA |
| Sink current | 3 A | 1.2 A | 0.6 A | 0.3 A |

**dc Floating Voltage**: Output terminals can be floated up to ±240 Vdc maximum from chassis ground

**Remote Sensing**: Up to two volts dropped in each load lead. Add 2 mV to the voltage load regulation specification for each one volt change in the positive output lead due to load current change.

**Command Processing Time**: Average time required for the output voltage to begin to change following receipt of digital data is 4 ms for the power supplies connected directly to the GPIB.

**Output Programming Response Time**: The rise and fall time (10/90% and 90/10%) of the output voltage is less than 2 ms. The output voltage change settles within 1 LSB (0.025% x rated voltage) of final value in less than 6 ms.

**GPIB Interface Capabilities**: IEEE-488.2, SCPI command set, and 6630A Series programming compatibility

**Input Power** *(full load)*: 1.6 A, 100 W (6611C: 2.2 A, 120 W)

**Regulatory Compliance**: Complies with EMC directive 89/336/EEC (ISM 1B). See page 73 for more information.

**Warranty Period**: Three years

**Size**: 212.8 mm W x 88.1 mm H x 368.3 mm D
(8.4 in x 3.5 in x 14.5 in)
See page 54 for more details

**Weight**: 8.2 kg (18.16 lb) net; 10.6 kg (23.5 lb) shipping

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**Ordering Information**
- Opt 100 87 to 106 Vac, 47 to 63 Hz
- Opt 120 104 to 127 Vac, 47 to 63 Hz
- Opt 220 191 to 233 Vac, 47 to 63 Hz
- Opt 230 207 to 253 Vac, 47 to 63 Hz
- Opt 760 Isolation and Reversal relays
- *Opt ICM Rack-mount Kit (p/n 5063-9240)
- *Opt AXS Rack-mount Kit side-by-side mounting of two units, Lock-link Kit p/n 5061-9694; Flange Kit p/n 5062-3974
- Opt 0L2 Additional standard documentation package
- Opt 0B3 Service Manual
- *Support rails required

**ACCESSORIES**
- Rack-mount and slide for two side-by-side units of different lengths p/n 1494-0015, 5063-9255 and filler panel 5002-3999
- Rack-mount slide and support for one instrument p/n 1494-0015, 5063-9255 and filler panel 5002-3999
- E3663AC Support rails for Agilent rack cabinets
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