

# 6610C Series Single-Output, 40-50 W GPIB Power Supplies

Data Sheet

Speed and accuracy for test optimization



- Small, compact size for bench and system use
- Fast, low-noise outputs
- Dual-range, precision low current measurement
- Built-in measurements and advanced programmable features
- Protection features to ensure DUT safety

This series of linear-regulated 40-50 W DC power supplies is designed to maximize the throughput of DUTs through the manufacturing test process with fast programming and measurement, and also active downprogramming. It offers many advanced programmable features including stored states and status reporting. Programming is done using industry standard SCPI commands via the GPIB or RS-232. Test system integration is further simplified by using the *VXIplug&play* drivers. The optional relays simplify system design and troubleshooting.

The half-rack size of the 6610C series makes it a convenient DC power supply for the R&D lab bench. The built-in microamp measurement system helps the engineer to easily and accurately monitor the output voltage and current without a complicated test setup.



**Agilent Technologies**



**Supplemental characteristics for all model numbers**

**DC floating voltage:** Output terminals can be floated up to  $\pm 240$  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 6610A/B 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).

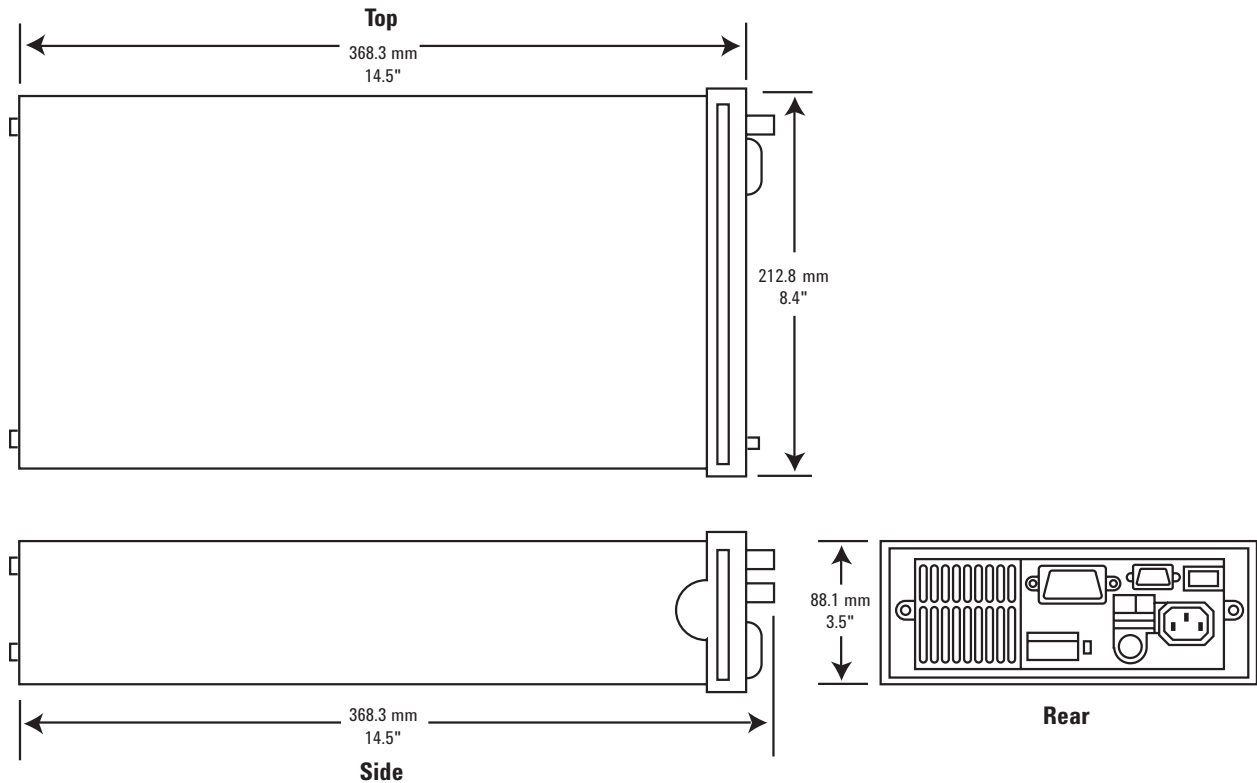
**Software driver:** *VXIplug&play*

**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)

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

**Warranty:** One year

**Agilent models:** 6611C, 6612C, 6613C, 6614C, 6611C-J05



## 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 87J** Removes feet for use in rack system

**Opt 0L1** Full documentation on CD-ROM, and printed standard documentation package. CD-ROM includes User's Guide, Programming Guide, Service Manual and Quick Start Guide  
**Opt 0B3** Printed service manual

## Accessories

**p/n 1494-0015** Rack slide kit  
**E3663AC** Support rails for Agilent rack cabinets  
**1CM002A\*** Rack mount flange kit 88.1 mm H (2U), 1.5 inch hole space for side by side mounting of two units. Requires lock link kit (and support rails)  
**5061-9694** Lock link kit  
**1CM024A\*** Rack mount flange kit 88.1 mm H (2U), one bracket, one half-module bracket, and filler panel

## 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)*, 5989-2291EN

\* Support rails required



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Product specifications and descriptions in this document subject to change without notice.

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