

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6611C 40 Watt System Power Supply, 8V, 5A

HP Agilent 6611C System DC Power Supply 8 V 5 A The Agilent/HP 6611C is a single output linear regulated 40 to 50 W class GPIB DC power supply rated 0 to 8 V and 0 to 5 A. OEM 6610C series datasheet lists 5 mV voltage programming accuracy, 0.5 mVrms ripple, dual range microamp measurement, and active downprogramming. Fast ATE 8 V class bias with microamp readback, R&D bench work in half rack form factor, and GPIB/RS-232 automated sourcing. Dual range precision low current measurement The Agilent/HP 6611C is a single output linear regulated 40 to 50 W class GPIB DC power supply rated 0 to 8 V and 0 to 5 A. OEM 6610C series datasheet lists 5 mV voltage programming accuracy, 0.5 mVrms ripple, dual range microamp measurement, and active downprogramming. Fast ATE 8 V class bias with microamp readback, R&D bench work in half rack form factor, and GPIB/RS-232 automated sourcing. Dual range precision low current measurement Optional isolation and polarity reversal relays



MODEL

HP / Agilent 6611C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6611C

LISTING

<https://aumictechlabs.com/products/6611c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6611C is a 40 W linear-regulated DC power supply delivering 0–8 V at 0–5 A with exceptional output stability and precision control. Purpose-built for benchtop and automated test

environments, it combines fast programming response, low-noise outputs, and microampere-level measurement capability - making it ideal for R&D characterization, manufacturing test, and battery-powered device validation. Technical Specifications Output Ratings Voltage: 0–8 V DC Current: 0–5 A DC Power: 40 W Topology: Linear-regulated Output Quality Voltage ripple & noise (20 Hz–20 MHz): ≤ 0.5 mV RMS, ≤ 3 mV peak-to-peak Load regulation: ± 2 mV Line regulation: ± 0.5 mV Programming response (10/90%): < 2 ms; settling (1 LSB): < 6 ms Measurement & Programming Accuracy (at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$) Voltage programming: ± 5 mV Current programming: $\pm 0.05\% + 2$ mA Voltage measurement: $\pm 0.03\% + 2$ mV Remote Sensing Compensates up to 2 V dropped across each load lead; adds 2 mV to load regulation per 1 V change in positive output lead. Interfaces & Control GPIB (IEEE-488) and RS-232 SCPI programming language with VXIplug&play drivers Command processing time (GPIB): < 4 ms Backward compatible with HP/Agilent 6632A, 6633A, 6634A command sets Operating Environment Installation category II, pollution degree 2 (indoor use) Operating altitude: up to 2000 m Operating humidity: maximum 95% relative Complies with EMC directive 89/336/EEC (ISM 1B), Low Voltage Directive 73/23/EEC, CE marked Physical Dimensions: 212.8 mm W $\times$ 88.1 mm H $\times$ 368.3 mm D (half-rack) Weight: 8.2 kg net Input power (full load): typically 1.6 A, 100 W Key Features Microampere-level measurement resolves low-current test scenarios ± 2 mV load regulation maintains stable voltage across dynamic load transitions < 2 ms programming response enables rapid test sequencing Dual-interface control (GPIB/RS-232) supports legacy and modern test systems Typical Applications Battery charger and fuel cell characterization Low-power integrated circuit testing Precision benchtop sourcing and measurement Automated production test of portable electronics Compatibility & Integration Native SCPI language support integrates with modern test frameworks. VXIplug&play drivers provide driver-level compatibility. Command-mode selection enables operation within existing test stacks using legacy 6632A/6633A/6634A instrument commands.

6611C Characteristics / Specifications

PARAMETER	VALUE
Number Of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 8 V
Output Current Rating	0 to 5 A
Programming Accuracy Voltage	5 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.05 percent plus 2 mA
Ripple Voltage RMS	0.5 mV
Ripple Voltage Peak To Peak	3 mV
Ripple Current RMS	2 mA
DC Measurement Accuracy Voltage	0.03 percent plus 2 mV
Low Current Measurement Accuracy	0.1 percent plus 2.5 uA from minus 20 mA to plus 20 mA
High Current Measurement Accuracy Positive	0.2 percent plus 0.5 mA
High Current Measurement Accuracy Negative	0.2 percent plus 1.1 mA
Load Regulation Voltage	2 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	0.5 mA
Transient Response Time	less than 100 us for up to 50 percent current step
Programming Resolution Voltage	2 mV
Programming Resolution Current	1.25 mA
Sink Current	3 A
Command Processing Time	4 ms average
Output Rise Fall Time	less than 2 ms
Output Settle Time	less than 6 ms to 1 LSB

PARAMETER	VALUE
Size	212.8 mmWx 88.1 mmHx 368.3 mmDNet Weight: 8.2 kg
Input Power Full Load	2.2 A, 120 W

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Number Of Outputs	1
GPIB	Yes
Output Voltage Rating	0 to 8 V
Output Current Rating	0 to 5 A
Programming Accuracy Voltage	5 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.05 percent plus 2 mA
Ripple Voltage RMS	0.5 mV
Ripple Voltage Peak To Peak	3 mV
Ripple Current RMS	2 mA
DC Measurement Accuracy Voltage	0.03 percent plus 2 mV
Low Current Measurement Accuracy	0.1 percent plus 2.5 uA from minus 20 mA to plus 20 mA
High Current Measurement Accuracy Positive	0.2 percent plus 0.5 mA
High Current Measurement Accuracy Negative	0.2 percent plus 1.1 mA
Load Regulation Voltage	2 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	0.5 mA
Transient Response Time	less than 100 us for up to 50 percent current step
Programming Resolution Voltage	2 mV
Programming Resolution Current	1.25 mA
Sink Current	3 A
Command Processing Time	4 ms average
Output Rise Fall Time	less than 2 ms
Output Settle Time	less than 6 ms to 1 LSB
Size	212.8 mmWx 88.1 mmHx 368.3 mmDNet Weight: 8.2 kg

PARAMETER	VALUE
-----------	-------

Input Power Full Load	2.2 A, 120 W
-----------------------	--------------

Notes
Specs from Agilent 6610C Series data sheet column for 6611C.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.