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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6613C 50 Watt System Power Supply, 50V, 1A

HP Agilent 6613C System DC Power Supply 50 V 1 A The Agilent/HP 6613C is a single output linear regulated 40 to 50 W class GPIB DC power supply rated 0 to 50 V and 0 to 1 A. OEM 6610C series datasheet lists 20 mV voltage programming accuracy, 0.5 mVrms ripple, dual range microamp measurement, and active downprogramming. ATE 50 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 6613C is a single output linear regulated 40 to 50 W class GPIB DC power supply rated 0 to 50 V and 0 to 1 A. OEM 6610C series datasheet lists 20 mV voltage programming accuracy, 0.5 mVrms ripple, dual range microamp measurement, and active downprogramming. ATE 50 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 6613C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6613C

LISTING

<https://aumictechlabs.com/products/6613c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6613C is a 50 W single-output DC power supply engineered for benchtop and system integration. It delivers 0 to 50 V and 0 to 1 A with programming accuracy of ± 20 mV

(voltage) and $\pm(0.05\% + 0.75 \text{ mA})$ (current). The unit combines low-noise output - 0.5 mV rms, 4 mV peak-to-peak - with dual-range current measurement down to the microampere level. Voltage regulation holds $\pm 4 \text{ mV}$ load and $\pm 1 \text{ mV}$ line variation; response time from command to output change is under 2 ms rise/fall and 6 ms settling. Output terminals float to $\pm 240 \text{ VDC}$ from chassis ground, and remote sensing accommodates up to 2 V drop per load lead. Technical Specifications

Output Ratings Voltage: 0 to 50 V Current: 0 to 1 A Power: 50 W Sink current: 0.6 A Programming Accuracy (at $25^\circ\text{C} \pm 5^\circ\text{C}$) Voltage: $\pm 20 \text{ mV}$ Current: $\pm(0.05\% + 0.75 \text{ mA})$ Resolution: 12.5 mV (voltage), 0.25 mA (current) Ripple and Noise (20 Hz to 20 MHz) Voltage (rms): 0.5 mV Voltage (peak-to-peak): 4 mV Normal mode (rms): 1 mA DC Measurement Accuracy (at $25^\circ\text{C} \pm 5^\circ\text{C}$) Voltage: $\pm(0.03\% + 6 \text{ mV})$ Low current (-20 mA to $+20 \text{ mA}$): $\pm(0.1\% + 2.5 \mu\text{A})$ High current ($+20 \text{ mA}$ to $+1 \text{ A}$): $\pm(0.2\% + 0.2 \text{ mA})$ High current (-20 mA to -1 A): $\pm(0.2\% + 0.8 \text{ mA})$ Load and Line Regulation Voltage load: $\pm 4 \text{ mV}$; voltage line: $\pm 1 \text{ mV}$ Current load: $\pm 0.5 \text{ mA}$; current line: $\pm 0.25 \text{ mA}$

Response Times Command processing (GPIB): 4 ms average Output rise/fall (10/90%, 90/10%): $< 2 \text{ ms}$ Settling time (within 1 LSB): $< 6 \text{ ms}$

Key Features GPIB (IEEE 488) and RS-232 interfaces with SCPI command support and VXIplug&play drivers Floating output to $\pm 240 \text{ VDC}$ from chassis ground Remote sensing capability with 2 V per-lead drop tolerance Compact benchtop form factor: $212.8 \times 88.1 \times 368.3 \text{ mm}$ Operating range: 0°C to 55°C ; up to 95% RH (non-condensing) Input options: 87–106 VAC, 104–127 VAC, 191–233 VAC, or 207–253 VAC (47–63 Hz) Input power (full load): 100 W EMC compliance: 89/336/EEC (ISM 1B) Typical Applications Automated test systems, device characterization, component burn-in, and manufacturing test environments requiring precision voltage and current control with integrated data acquisition. Compatibility & Integration GPIB and RS-232 connectivity enables direct integration into ATE platforms. SCPI command compatibility and VXIplug&play drivers streamline software development for test automation.

6613C Characteristics / Specifications

PARAMETER	VALUE
Number Of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 50 V
Output Current Rating	0 to 1 A
Programming Accuracy Voltage	20 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.05 percent plus 0.75 mA
Ripple Voltage RMS	0.5 mV
Ripple Voltage Peak To Peak	4 mV
Ripple Current RMS	1 mA
DC Measurement Accuracy Voltage	0.03 percent plus 6 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 0.2 mA
High Current Measurement Accuracy Negative	0.2 percent plus 0.8 mA
Load Regulation Voltage	4 mV
Load Regulation Current	0.5 mA
Line Regulation Voltage	1 mV
Line Regulation Current	0.25 mA
Transient Response Time	less than 100 us for up to 50 percent current step
Programming Resolution Voltage	12.5 mV
Programming Resolution Current	0.25 mA
Sink Current	0.6 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	1.6 A, 100 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	
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GPiB	Yes
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Programming Accuracy Current	0.05 percent plus 0.75 mA
Ripple Voltage RMS	0.5 mV
Ripple Voltage Peak To Peak	4 mV
Ripple Current RMS	1 mA
DC Measurement Accuracy Voltage	0.03 percent plus 6 mV
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Notes

Specs from Agilent 6610C Series data sheet column for 6613C.

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

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.