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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6614C DC Power Supply

Agilent Keysight 6614C System DC Power Supply 0 to 100 V 0 to 0.5 A The Agilent/Keysight 6614C is a linear-regulated 40–50 W system DC power supply. OEM 6610C Series data sheet rates 0 to 100 V and 0 to 0.5 A with GPIB, precision low-current measurement, and active downprogramming. Portable product manufacturing test and bench system DC with microamp readback. Dual-range precision low current measurement The Agilent/Keysight 6614C is a linear-regulated 40–50 W system DC power supply. OEM 6610C Series data sheet rates 0 to 100 V and 0 to 0.5 A with GPIB, precision low-current measurement, and active downprogramming. Portable product manufacturing test and bench system DC with microamp readback. Dual-range precision low current measurement Programming Accuracy Voltage 25 C: 0.05 percent plus 50 mV



MODEL

**Agilent / Keysight
6614C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6614C

LISTING

<https://aumictechlabs.com/products/6614c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 6614C is a 50 W single-output DC power supply engineered for precision voltage and current control in automated testing and sensitive circuit development. This half-rack instrument delivers 0–100 V at 0–0.5 A with programming accuracy of ± 50 mV (voltage) and $\pm 0.05\% + 0.5$ mA (current) at $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$. Ultra-low output noise - 0.5 mV RMS and 5 mV peak-to-peak across 20 Hz to 20 MHz - makes it suitable for low-noise applications. Fast transient response recovers within 0.1% of programmed voltage in under 100 μs , while settling time reaches

within 1 LSB in less than 6 ms. Technical Specifications Output Rating: 0–100 V, 0–0.5 A (50 W total) Voltage Ripple & Noise: 0.5 mV RMS, 5 mV peak-to-peak (20 Hz–20 MHz) Load Regulation: ± 5 mV Line Regulation: ± 1 mV Programming Accuracy: ± 50 mV (voltage); $\pm 0.05\%$ + 0.5 mA (current) Current Measurement: Down to microampere levels via built-in measurement DC Measurement Accuracy: $\pm 0.03\%$ + 2 mV (voltage) Rise/Fall Time: < 2 ms (10/90%, 90/10%) Settling Time: < 6 ms (within 1 LSB) Transient Response: < 100 μ s to 0.1% of voltage GPIB Command Processing: < 4 ms Key Features Single-output architecture optimized for focused application control Compact half-rack form factor for benchtop and rack-mount integration Built-in voltage and current measurement without external instrumentation GPIB primary control with RS-232 secondary interface for flexible system integration Over-voltage, over-current, and over-temperature protection Class I safety classification with protective earth terminal EMC compliance per 89/336/EEC (ISM 1B) Typical Applications Component and subsystem characterization requiring stable, low-noise excitation Automated test systems with GPIB control and real-time measurement feedback Sensitive analog circuit development and validation Microampere-level current monitoring and load transient testing Compatibility & Integration GPIB and RS-232 interfaces enable integration into automated test benches and system-level applications. Stored states and status reporting streamline multi-point calibration and production workflows.

6614C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight 6610C
Number of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 100 V
Output Current Rating	0 to 0.5 A
Programming Accuracy Voltage 25 C	0.05 percent plus 50 mV
Programming Accuracy Current	0.05 percent plus 0.5 mA
Ripple Noise Voltage RMS	0.5 mV
Ripple Noise Voltage Peak Peak	5 mV
Ripple Noise Current RMS	1 mA
Load Regulation Voltage	0.5 mV class
Load Regulation Current	0.5 mA class
Line Regulation Voltage	0.5 mV class
Line Regulation Current	0.25 to 0.5 mA class
Transient Response	less than 100 us for up to 50 percent load step
Average Programming Resolution Voltage	25 mV
Average Programming Resolution Current	0.125 mA
Sink Current	0.3 A
Output Programming Rise Fall	less than 2 ms
Settling	less than 6 ms to 1 LSB
Size	212.8 mmWx 88.1 mmHx 368.3 mmDWeight Net: 8.2 kg (18.16 lb)
Input Power Full Load	1.6 A, 100 W class
DC Floating Voltage	plus or minus 240 Vdc

6614C Specifications

PARAMETER	VALUE
Applications	Portable product manufacturing test and bench system DC with microamp readback.
Key Features	Fast low-noise linear output
Technical Specifications	Instrument Type: System DC power supply
Notes	From Keysight 6610C Series data sheet model column. B revisions share the matching C voltage/current column in OEM literature.

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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Instrument Type	System DC power supply
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Number of Outputs	1
GPiB	Yes
Output Voltage Rating	0 to 100 V
Output Current Rating	0 to 0.5 A
Programming Accuracy Voltage 25 C	0.05 percent plus 50 mV
Programming Accuracy Current	0.05 percent plus 0.5 mA
Ripple Noise Voltage RMS	0.5 mV
Ripple Noise Voltage Peak Peak	5 mV
Ripple Noise Current RMS	1 mA
Load Regulation Voltage	0.5 mV class
Load Regulation Current	0.5 mA class
Line Regulation Voltage	0.5 mV class
Line Regulation Current	0.25 to 0.5 mA class
Transient Response	less than 100 us for up to 50 percent load step
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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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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.