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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6634B 100 Watt System Power Supply, 100V, 1A

The Agilent/Keysight 6634B is a single-output 100 W GPIB system DC power supply in the 6630B series. OEM datasheets specify 0–100 V and 0–1 A with fast linear-regulated output, programmable active down-programmer sinking full rated current, dual-range precision current measurement, and SCPI/GPIB automation for manufacturing and R&D. Used for automated DUT bias, medium-voltage device characterization, production test needing fast settle and sink capability, microamp-level current monitoring on the low range, and bench work with optional front-panel binding posts. Average programming resolution current: 0.25 mA DC floating voltage: ± 240 Vdc from chassis ground Dimensions: 425.5 mm W $\times$ 88.1 mm H $\times$ 364.4 mm D Net weight: 12.7 kg Specifications are from Agilent/Keysight 6630B Series Single-Output 80–100 W GPIB Power Supplies datasheets for model 6634B. Option availability (binding posts, isolation relays) depends on original order configuration.



MODEL

HP / Agilent 6634B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6634B

LISTING

<https://aumictechlabs.com/products/6634b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6634B is a 100 W single-output DC power supply delivering 0–100 V at 0–1 A for automated test systems and rack-mount integration. This series-pass regulated unit combines fast programming response, precision measurement, and GPIB control to meet high-throughput

manufacturing test requirements. Command processing executes in less than 4 ms, while output programming settles within 2 ms (standard) or 400 μ s (fast mode). The built-in DVM measures actual output voltage and current with 0.03% + 2 mV accuracy, supported by dual-range low-current measurement for precision monitoring. Technical Specifications Output Voltage: 0–100 V Current: 0–1 A Power: 100 W Programming Accuracy (25°C $\pm$ 5°C) Voltage: 50 mV Current: 0.05% + 0.5 mA Measurement Accuracy (GPIB/front panel, 25°C $\pm$ 5°C) Voltage: 0.03% + 2 mV Ripple and Noise (20 Hz–20 MHz) Voltage (normal mode): 0.5 mV RMS / 3 mV peak-to-peak Voltage (fast mode): 2 mV RMS / 25 mV peak-to-peak Current: 2 mA RMS Regulation Load regulation (voltage): 2 mV Load regulation (current): 2 mA Line regulation (voltage): 0.5 mV Line regulation (current): 1 mA Response Time Command processing: < 4 ms Output programming (rise/fall): < 2 ms standard, < 400 μ s fast mode Output settling (1 LSB): < 6 ms standard, < 2 ms fast mode Measurement time: 50 ms average Input Power Full load: 3.5 A, 250 W Line voltage (Opt 120): 104–127 Vac, 47–63 Hz Line voltage (Opt 220): 191–233 Vac, 47–63 Hz Line voltage (Opt 230): 207–253 Vac, 47–63 Hz Physical Dimensions: 425.5 mm W $\times$ 88.1 mm H $\times$ 364.4 mm D Weight: 12.7 kg Key Features Active down-programmer sinks full rated current for fast output discharge to zero volts Dual-range precision low-current measurement for accurate output monitoring Fast-mode response for high-speed test sequences Load and line regulation specifications ensure stable operation across input and output conditions Compatibility & Integration Interfaces GPIB (HP-IB) with SCPI command support RS-232 programming interface Environmental Operating humidity: Maximum 95% relative humidity Altitude: Up to 2000 meters Installation category II, pollution degree 2 Standards Compliance EMC Directive 89/336/EEC (ISM 1B) Low Voltage Directive 73/23/EEC and 93/68/EEC CE marked Optional Equipment Opt 760: Isolation and polarity reversal relays

6634B Characteristics / Specifications

PARAMETER	VALUE
Number of outputs	1
Output voltage rating	0 to 100 V
Output current rating	0 to 1 A
Voltage normal mode ripple and noise rms 20 Hz to 20 MHz	0.5 mV
Voltage normal mode ripple and noise peak to peak	3 mV
Voltage fast mode ripple and noise rms	2 mV
Voltage fast mode ripple and noise peak to peak	25 mV
Current ripple and noise rms	2 mA
Voltage load regulation	5 mV
Current load regulation	1 mA
Voltage line regulation	1 mV
Current line regulation	0.25 mA
Transient response time normal mode	less than 100 μ s
Transient response time fast mode	less than 50 μ s
Output programming rise and fall time normal mode	less than 2 ms
Output programming rise and fall time fast mode	less than 400 μ s
Settle time to 1 LSB normal mode	less than 6 ms
Settle time to 1 LSB fast mode	less than 2 ms
Command processing time	4 ms average
Measurement time average	50 ms
Average programming resolution voltage	25 mV
Average programming resolution current	0.25 mA

PARAMETER	VALUE
Sink current	1 A
DC floating voltage	±240 Vdc from chassis ground
Input power full load	3.5 A, 250 W
Dimensions	425.5 mm W × 88.1 mm H × 364.4 mmDNet weight: 12.7 kg

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
Settle time to 1 LSB normal mode	less than 6 ms
Settle time to 1 LSB fast mode	less than 2 ms
Command processing time	4 ms average
Measurement time average	50 ms
Average programming resolution voltage	25 mV
Average programming resolution current	0.25 mA
Sink current	1 A
DC floating voltage	±240 Vdc from chassis ground
Input power full load	3.5 A, 250 W
Dimensions	425.5 mm W × 88.1 mm H × 364.4 mm D
Net weight	12.7 kg
Specifications	
PARAMETER	VALUE
Number of outputs	1
Output voltage rating	0 to 100 V
Output current rating	0 to 1 A
Voltage programming accuracy at 25 ±5 °C: 0.05% + 50 mV Current programming accuracy at 25 ±5 °C: 0.05% + 0.5 mA Voltage normal mode ripple and noise rms 20 Hz to 20 MHz: 0.5 mV Voltage normal mode ripple and noise peak to peak: 3 mV Voltage fast mode ripple and noise rms: 2 mV Voltage fast mode ripple and noise peak to peak: 25 mV Current ripple and noise rms: 2 mA Voltage measurement accuracy at 25 ±5 °C: 0.03% + 12 mV Low current range measurement accuracy -20 mA to +20 mA: 0.1% + 2.5 µA High current range measurement accuracy +20 mA to rated I: 0.2% + 0.25 mA High current range measurement accuracy -20 mA to -rated I: 0.2% + 0.85 mA	
Specifications	
PARAMETER	VALUE
Voltage load regulation	5 mV

PARAMETER	VALUE
Current load regulation	1 mA
Voltage line regulation	1 mV
Current line regulation	0.25 mA
Transient response time normal mode	less than 100 μ s
Transient response time fast mode	less than 50 μ s

Output programming rise and fall time normal mode: less than 2 ms
Output programming rise and fall time fast mode: less than 400 μ s

Specifications

PARAMETER	VALUE
Settle time to 1 LSB normal mode	less than 6 ms
Settle time to 1 LSB fast mode	less than 2 ms
Command processing time	4 ms average
Measurement time average	50 ms
Average programming resolution voltage	25 mV
Average programming resolution current	0.25 mA
Sink current	1 A
DC floating voltage	$\pm$ 240 Vdc from chassis ground
Input power full load	3.5 A, 250 W
Dimensions	425.5 mm W $\times$ 88.1 mm H $\times$ 364.4 mmDNet weight: 12.7 kg

Notes
Specifications are from Agilent/Keysight 6630B Series Single-Output 80–100 W GPIB Power Supplies datasheets for model 6634B. Option availability (binding posts, isolation relays) depends on original order configuration.

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 ·
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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.