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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3634A DC Power Supply

HP Agilent E3634A Dual Range DC Power Supply The Agilent/Keysight E3634A is a 200 W single-output programmable supply with dual ranges of 0 to 25 V/7 A or 0 to 50 V/4 A. OEM E363xA datasheets specify front/rear terminals, OVP/OCP, remote sensing, and 0.05% + 10 mV voltage programming accuracy shared with E3632A/E3633A. 50 V dual-range automated bias, manufacturing test with rear binding posts, and general-purpose 200 W programmable DC source work. Load Regulation Voltage: less than 0.01% + 2 mV The Agilent/Keysight E3634A is a 200 W single-output programmable supply with dual ranges of 0 to 25 V/7 A or 0 to 50 V/4 A. OEM E363xA datasheets specify front/rear terminals, OVP/OCP, remote sensing, and 0.05% + 10 mV voltage programming accuracy shared with E3632A/E3633A. 50 V dual-range automated bias, manufacturing test with rear binding posts, and general-purpose 200 W programmable DC source work. Load Regulation Voltage: less than 0.01% + 2 mV Load Regulation Current: less than 0.01% + 250 μ A



MODEL

**Agilent / Keysight
E3634A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3634A

LISTING

<https://aumictechlabs.com/products/e3634a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E3634A is a 200 W single-output, dual-range programmable DC power supply engineered for benchtop and system-level test applications. Its dual voltage/current ranges - 0 to 25 VDC at 0 to 7 A, or 0 to 50 VDC at 0 to 4 A - deliver flexibility for diverse load requirements.

Programming accuracy of $\pm(0.05\% + 10 \text{ mV})$ on voltage and $\pm(0.2\% + 10 \text{ mA})$ on current, combined with load and line regulation better than $0.01\% + 250 \text{ }\mu\text{A}$, ensures stable, repeatable power delivery for R&D, production testing, and quality assurance workflows.

Technical Specifications

Output Performance Voltage range: 0–25 VDC (7 A) or 0–50 VDC (4 A)

Programming accuracy (voltage): $\pm(0.05\% + 10 \text{ mV})$ Programming accuracy (current): $\pm(0.2\% + 10 \text{ mA})$ Readback accuracy (voltage): $\pm(0.05\% + 5 \text{ mV})$ Readback accuracy (current): $\pm(0.15\% + 5 \text{ mA})$ Load regulation (voltage): $< 0.01\% + 250 \text{ }\mu\text{A}$ Line regulation (voltage): $< 0.01\% + 250 \text{ }\mu\text{A}$ Ripple and noise (20 Hz–20 MHz): $< 500 \text{ }\mu\text{Vrms} / 3 \text{ mVpp}$ (normal-mode) Output recovery: $< 50 \text{ }\mu\text{sec}$ (15 mV settling following full/half-load step) Programming resolution (voltage): 3 mV Front-panel resolution (voltage): 1 mV Front-panel resolution (current): 0.5 mA Protection & Environmental Overvoltage and overcurrent protection standard Operating temperature: 0 °C to 40 °C Supply input: 103.5–253 VAC, 47–63 Hz Dimensions: 213 × 133 × 348 mm; 8.2 kg

Key Features Remote sensing compensates for lead-drop errors across load terminals GPIB (IEEE-488) and RS-232 interfaces with SCPI command set Front and rear output terminals Command processing: $< 100 \text{ msec}$ Low noise and excellent regulation for sensitive circuit testing

Typical Applications Component characterization, circuit validation, subsystem power testing, manufacturing burn-in, and automated test systems requiring precise DC sourcing and measurement.

Compatibility & Integration Full SCPI compatibility enables integration into ATE frameworks. GPIB and RS-232 support legacy and modern test architectures.

E3634A Characteristics / Specifications

PARAMETER	VALUE
Output Range Low	0 to 25 V / 7 A
Output Range High	0 to 50 V / 4 A
Total Power	200 W
Load Regulation Voltage	less than 0.01% + 2 mV
Load Regulation Current	less than 0.01% + 250 uA
Ripple Noise Voltage	less than 500 uVrms / 3 mVpp
Ripple Noise Current	less than 2 mArms
Programming Voltage Accuracy	0.05% + 10 mV
Programming Current Accuracy	0.2% + 10 mA
Readback Voltage Accuracy	0.05% + 5 mV
Readback Current Accuracy	0.15% + 5 mA
Transient Response	less than 50 us to within 15 mV
OVP OCP Accuracy	0.5% + 0.5 V / 0.5% + 0.5 A
Remote Sense Max Per Lead	0.7 V
Program Resolution	3 mV / 0.5 mA
Readback Resolution	1.5 mV / 0.5 mA
Voltage Program Speed Up Full Load	80 ms to within 1%
Voltage Program Speed Down Full Load	30 ms to within 1%
Command Processing Time	less than 100 ms
Dimensions	213 mmWx 133 mmHx 348 mmDNet Weight: 9.5 kg (21 lb)
AC Input	100/115/230 Vac +/-10%, 47 to 63 Hz
Common Mode Current	less than 1.5 uArms
Maximum Voltage	50 V
Output Terminals	front and rear

E3634A Specifications

PARAMETER	VALUE
HP Agilent E3634A Dual Range DC Power Supply	Overview
Applications	50 V dual-range automated bias, manufacturing test with rear binding posts, and general-purpose 200 W programmable DC source work.
Key Features	Dual-range 25 V/7 A or 50 V/4 A at 200 W
OVP and OCP protection	Remote sensing to 0.7 V per lead
Technical Specifications	Output Range Low: 0 to 25 V / 7 A
Notes	From Keysight E363xA Series data sheet (5968-9726). Program resolution for E3634A is 3 mV/0.5 mA per OEM supplemental characteristics.

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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PARAMETER	VALUE
Output Range Low	0 to 25 V / 7 A
Output Range High	0 to 50 V / 4 A
Total Power	200 W
Load Regulation Voltage	less than 0.01% + 2 mV
Load Regulation Current	less than 0.01% + 250 uA
Ripple Noise Voltage	less than 500 uVrms / 3 mVpp
Ripple Noise Current	less than 2 mA rms
Programming Voltage Accuracy	0.05% + 10 mV
Programming Current Accuracy	0.2% + 10 mA
Readback Voltage Accuracy	0.05% + 5 mV
Readback Current Accuracy	0.15% + 5 mA
Transient Response	less than 50 us to within 15 mV
OVP OCP Accuracy	0.5% + 0.5 V / 0.5% + 0.5 A
Remote Sense Max Per Lead	0.7 V
Program Resolution	3 mV / 0.5 mA
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Maximum Voltage	50 V
Output Terminals	front and rear

Notes

From Keysight E363xA Series data sheet (5968-9726). Program resolution for E3634A is 3 mV/0.5 mA per OEM supplemental characteristics.

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.