

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E3634A

The Keysight Agilent E3634A is a high-performance, single-output, dual-range programmable DC power supply offering up to 200 W of clean power. Designed for both benchtop and automated test environments, it features built-in GPIB and RS-232 interfaces, low output ripple and noise, high programming and readback accuracy, and excellent regulation capabilities.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232
Display	Vacuum Fluorescent Display (VFD)
State Storage	3 user-defined states
Warm-up Time	1 hour
Recommended Calibration Cycle	1 year

Physical

Power Supply	100 Vac / 115 Vac / 230 Vac ($\pm 10\%$), 47 Hz to 63 Hz, 500 VA max
Operating Temperature	0 to 40 °C °C
Dimensions (W×H×D)	213 mm × 133 mm × 348 mm mm
Weight	9.5 kg kg

Output Ratings

Number of Outputs	1
Output Ranges	Range 1: 0 to 25 V, 7 A / Range 2: 0 to 50 V, 4 A
Range 1 Output Voltage	0 to 25 V
Range 1 Output Current	0 to 7 A
Range 2 Output Voltage	0 to 50 V
Range 2 Output Current	0 to 4 A
Maximum Output Power	200 W
Isolation Voltage	240 Vdc

Load Regulation

Voltage Load Regulation	< 0.01% + 2 mV
Current Load Regulation	< 0.01% + 250 μ A

Line Regulation

Voltage Line Regulation	< 0.01% + 2 mV
Current Line Regulation	< 0.01% + 250 μ A

Ripple & Noise

Normal Mode Voltage Ripple (RMS)	< 500 μ Vrms
Normal Mode Voltage Ripple (Peak-to-Peak)	< 3 mVpp
Normal Mode Current Ripple (RMS)	< 2 mA rms
Common Mode Current Noise	< 1.5 μ A rms

Programming Accuracy

Voltage Programming Accuracy	0.05% + 10 mV
Current Programming Accuracy	0.2% + 10 mA

Readback Accuracy

Voltage Readback Accuracy	0.05% + 5 mV
Current Readback Accuracy	0.15% + 5 mA

Resolution

Voltage Programming Resolution	1.5 mV
Current Programming Resolution	0.2 mA
Voltage Readback Resolution	1.5 mV
Current Readback Resolution	0.2 mA
Front Panel Meter Voltage Resolution	10 mV
Front Panel Meter Current Resolution	1 mA

Transient Response

Transient Recovery Time	< 50 μ s
Voltage Settling Band	within 15 mV
Load Change Specification	50% to 100% or 100% to 50% load change

Stability & Temperature Coefficient

Voltage Temperature Coefficient	< 0.01% + 3 mV per $^{\circ}$ C
Current Temperature Coefficient	< 0.02% + 3 mA per $^{\circ}$ C

Connectivity & System Interfaces

Programming Languages Supported	SCPI (Standard Commands for Programmable Instruments)
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Environmental Specifications

Cooling Method	Fan cooled
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Power Requirements

Maximum Input Apparent Power	700 VA
AC Input Frequency	47 Hz - 63 Hz

Environmental

Operating Altitude	Up to 2,000 meters
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Compliance

Pollution Degree	Pollution Degree 2
Installation Category	Category II

Software & Programming

SCPI Version	1995.0
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TECHNOLOGY

Linear

APPLICATIONS

Benchtop R&D, automated production testing, and education

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