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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3647A DC Power Supply

HP Agilent E3647A Programmable DC Power Supply The Agilent/Keysight E3647A is an E364xA series programmable dual-range DC power supply rated 60 W with 2 output(s). OEM E3640A to E3649A datasheet 5968-7355EN lists dual-range ratings, 0.01% load/line regulation, GPIB and RS-232 standard, and 12-month programming/readback accuracies at 25 C +/-5 C after 1-hour warm-up. R&D bench bias, production ATE power sequencing over GPIB or RS-232, and QA verification needing dual-range CV/CC rails with OVP and remote sense. The Agilent/Keysight E3647A is an E364xA series programmable dual-range DC power supply rated 60 W with 2 output(s). OEM E3640A to E3649A datasheet 5968-7355EN lists dual-range ratings, 0.01% load/line regulation, GPIB and RS-232 standard, and 12-month programming/readback accuracies at 25 C +/-5 C after 1-hour warm-up. R&D bench bias, production ATE power sequencing over GPIB or RS-232, and QA verification needing dual-range CV/CC rails with OVP and remote sense. Selectable dual output ranges for higher current or higher voltage



MODEL

**Agilent / Keysight
E3647A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3647A

LISTING

<https://aumictechlabs.com/products/e3647a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E3647A is a 60 W dual-output linear DC power supply for benchtop and system integration applications. Engineered for R&D, production testing, and QA verification, it delivers clean power with low noise and exceptional regulation. Dual-range outputs, GPIB/RS-232

control, and SCPI compatibility enable precise voltage and current programming across demanding test scenarios.

Technical Specifications

Output Ratings (0 °C to 40 °C): Range 1: 0–35 V / 0.8 A Range 2: 0–60 V / 0.5 A Total power: 60 W Regulation & Stability: Load and line regulation: $\pm 0.01\%$ + offset Voltage stability (8 h): $< 0.02\%$ + 2 mV Current stability (8 h): $< 0.1\%$ + 1 mA Programming Accuracy (25 °C $\pm$ 5 °C): Voltage (output 1): $< 0.05\%$ + 10 mV Voltage (output 2): $< 0.1\%$ + 25 mV Current: $< 0.2\%$ + 10 mA Ripple & Noise (20 Hz–20 MHz): Normal mode voltage: < 8 mVpp / 1 mVrms Normal mode current: < 4 mArms Common mode current (PARD): < 1.5 μ A rms

AC Input Options: 100 Vac $\pm$ 10% (option 0E9) 115 Vac $\pm$ 10% (standard) 230 Vac $\pm$ 10% (option 0E3) Frequency: 47–63 Hz

Key Features Dual independent outputs with simultaneous voltage/current display Front panel binding posts and rear screw terminals for flexible connectivity Remote sensing via rear terminal to compensate load-lead voltage drops Rotary knob and keypad control with 10 mV / 1 mA resolution Five-slot non-volatile memory for setup storage and recall Output on/off control button GPIB (IEEE-488) and RS-232 interfaces for remote operation Safety Class I with protective earth terminal; UL3111-1, CSA 22.2 No. 1010.1, IEC 1010-1, EMC directive 89/336/EEC compliant

Typical Applications Suitable for semiconductor testing, circuit validation, power converter characterization, and automated test systems requiring precise dual-supply control with minimal noise and drift.

Compatibility & Integration SCPI-compatible programming enables integration into GPIB or RS-232 networked test environments. Dual outputs support independent or coordinated control of multiple voltage rails.

E3647A Characteristics / Specifications

PARAMETER	VALUE
Maximum Power	60 W
Number of Outputs	2
DC Output Rating	Two outputs each 0 to 35 V/0.8 A or 0 to 60 V/0.5 A
Load Regulation Voltage	less than 0.01% + 3 mV
Load Regulation Current	less than 0.01% + 250 μ A
Line Regulation Voltage	less than 0.01% + 3 mV
Line Regulation Current	less than 0.01% + 250 μ A
Ripple Noise Voltage	less than 8 mVpp / 1 mVrms
Ripple Noise Current	less than 4 mArms
Common Mode Current	less than 1.5 μ Arms
Programming Voltage Accuracy	less than 0.1% + 25 mV
Programming Current Accuracy	less than 0.2% + 10 mA
Readback Voltage Accuracy	less than 0.1% + 25 mV
Readback Current Accuracy	less than 0.15% + 10 mA
Meter Voltage Accuracy	less than 0.1% + 4 counts
Meter Current Accuracy	less than 0.15% + 10 mA
Program Resolution	less than 5 mV / 1 mA
Readback Resolution	less than 2 mV / 1 mA
Meter Resolution	10 mV / 1 mA
Transient Response	less than 50 μ s to within 15 mV half to full load
Settling Time	less than 90 ms
OVP Accuracy	less than 0.5% + 0.5 V
OVP Activation Time	less than 1.5 ms for OVP at or above 3 V; less than 10 ms below 3 V
Remote Sense Lead Drop	1 V max each load lead
Dimensions	212.8 mmWx 133.0 mmHx 348.3 mmDNet Weight: 8.0 kg

PARAMETER	VALUE
AC Input	100/115/230 Vac +/-10%, 47 to 63 Hz
Operating Temperature Rating	0 C to 40 C for stated output ratings
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General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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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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Load Regulation Current	less than 0.01% + 250 uA
Line Regulation Voltage	less than 0.01% + 3 mV
Line Regulation Current	less than 0.01% + 250 uA
Ripple Noise Voltage	less than 8 mVpp / 1 mVrms
Ripple Noise Current	less than 4 mA rms
Common Mode Current	less than 1.5 uA rms
Programming Voltage Accuracy	less than 0.1% + 25 mV
Programming Current Accuracy	less than 0.2% + 10 mA
Readback Voltage Accuracy	less than 0.1% + 25 mV
Readback Current Accuracy	less than 0.15% + 10 mA
Meter Voltage Accuracy	less than 0.1% + 4 counts
Meter Current Accuracy	less than 0.15% + 10 mA
Program Resolution	less than 5 mV / 1 mA
Readback Resolution	less than 2 mV / 1 mA
Meter Resolution	10 mV / 1 mA
Transient Response	less than 50 us to within 15 mV half to full load
Settling Time	less than 90 ms
OVP Accuracy	less than 0.5% + 0.5 V
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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.