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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3644A DC Power Supply

HP Agilent E3644A Programmable DC Power Supply The Agilent/Keysight E3644A is an E364xA series programmable dual-range DC power supply rated 80 W with 1 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 E3644A is an E364xA series programmable dual-range DC power supply rated 80 W with 1 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
E3644A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3644A

LISTING

<https://aumictechlabs.com/products/e3644a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E3644A is an 80 W single-output linear DC power supply engineered for benchtop R&D, production testing, and quality assurance applications. Dual-range output

capability delivers 0–8 V at 8 A or 0–20 V at 4 A, with exceptional regulation, low noise, and fast transient response. Front-panel binding posts and rear screw terminals accommodate diverse lead configurations. Remote sensing and overvoltage protection are standard. Programmable via GPIB and RS-232 with full SCPI support and stored setups for up to five configurations.

Technical Specifications

Output Ratings 80 W maximum power Dual-range: 0–8 V @ 8 A or 0–20 V @ 4 A

Line regulation: $\leq 0.01\%$ **Load regulation:** $\leq 0.01\%$ **Accuracy & Stability** Programming accuracy: $< 0.05\% + 10 \text{ mV}$ (voltage), $< 0.2\% + 10 \text{ mA}$ (current) Readback accuracy: $< 0.05\% + 5 \text{ mV}$ (voltage), $< 0.15\% + 5 \text{ mA}$ (current) Voltage ripple & noise (20 Hz–20 MHz): $< 5 \text{ mVpp} / 0.5 \text{ mVrms}$ Current noise: $< 4 \text{ mArms}$ Transient recovery: $\leq 15 \text{ mV}$ within $50 \mu\text{s}$ (full to half load) Settling time: $< 90 \text{ ms}$ post-load change

Protection & Operation Built-in overvoltage protection: $< 0.5\% + 0.5 \text{ V}$ accuracy Constant voltage/constant current (CV/CC) capable

Key Features Vacuum fluorescent display for voltage and current readout Rotary knob and keypad controls Remote sensing terminals to eliminate lead-drop errors Fan cooling with automatic speed control Five non-volatile memory slots for setup storage VXI plug&play drivers for Keysight VEE and National Instruments LabView/LabWindows

Typical Applications Design verification and prototype testing Production line power validation Quality assurance and burn-in testing Laboratory characterization of low-power circuits and modules

Compatibility & Integration GPIB (IEEE-488) and RS-232 interfaces with SCPI command support enable seamless integration into automated test systems. Output terminals include front-panel binding posts (safety test leads, banana plugs, stripped wire) and rear-panel screw terminals. Environmental: 0°C to 40°C operating range. AC input: 115 VAC $\pm 10\%$ standard; 100 VAC, 230 VAC, or 250 VAC configurations available. Dimensions: $254.4 \times 103.6 \times 374 \text{ mm}$; 5.3 kg.

E3644A Characteristics / Specifications

PARAMETER	VALUE
Maximum Power	80 W
Number of Outputs	1
DC Output Rating	0 to 8 V/8 A or 0 to 20 V/4 A
Load Regulation Voltage	less than 0.01% + 3 mV
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 5 mVpp / 0.5 mVrms
Ripple Noise Current	less than 4 mArms
Common Mode Current	less than 1.5 uArms
Programming Voltage Accuracy	less than 0.05% + 10 mV
Programming Current Accuracy	less than 0.2% + 10 mA
Readback Voltage Accuracy	less than 0.05% + 5 mV
Readback Current Accuracy	less than 0.15% + 5 mA
Meter Voltage Accuracy	less than 0.05% + 2 counts
Meter Current Accuracy	less than 0.15% + 5 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
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	212.6 mmWx 88.5 mmHx 348.3 mmDNet Weight: 6.6 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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Meter Voltage Accuracy	less than 0.05% + 2 counts
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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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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.