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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3640A DC Power Supply

Agilent HP E3640A Programmable DC Power Supply The Agilent/Keysight E3640A is an E364xA series programmable dual-range DC power supply rated 30 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 E3640A is an E364xA series programmable dual-range DC power supply rated 30 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
E3640A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3640A

LISTING

<https://aumictechlabs.com/products/e3640a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight E3640A is a 30 W single-output DC power supply delivering dual-range voltage and current outputs for benchtop and system integration. Linear topology ensures stable, regulated

power with minimal noise - ideal for R&D, production testing, and precision laboratory work. Remote control via GPIB and RS-232 enables seamless automation and test system integration.

Technical Specifications

DC Output: Range 1: 0–8 V at 3 A Range 2: 0–20 V at 1.5 A
Maximum power: 30 W Regulation & Accuracy: Load regulation: $\pm 0.01\%$ of output + 3 mV Line regulation: $\pm 0.01\%$ of output + 3 mV Voltage settling time: <90 ms Transient response: <50 μ s (15 mV recovery window) Protection: Overvoltage protection (OVP) user-configurable with <0.5% + 0.5 V accuracy OVP activation: <1.5 ms (≥ 3 V), <10 ms (<3 V) Resolution: Front panel: 10 mV / 1 mA Programmatic: <5 mV / 1 mA AC Input: 115 VAC $\pm 10\%$ (standard); 100 VAC or 230 VAC options Frequency: 47–63 Hz

Key Features

Dual-range operation maximizes flexibility across low and high voltage applications Low ripple and noise on both normal mode voltage and common mode current Remote voltage sensing at rear terminals compensates for load lead drops Vacuum fluorescent display with rotary knob and keypad control Five nonvolatile memory slots for setup storage and recall Built-in voltage and current measurement Front panel binding posts accept safety leads, banana clips, and stripped wire Rear screw-type output terminals; remote sense terminals

Typical Applications

Precision component testing, device characterization, analog circuit development, and automated production test environments requiring stable, noise-free DC power with fast transient response.

Compatibility & Integration

GPIB (IEEE-488) and RS-232 interfaces enable direct integration into automated test systems and remote command operation. Remote sensing supports voltage drop compensation in high-current or long-lead applications.

E3640A Characteristics / Specifications

PARAMETER	VALUE
Maximum Power	30 W
Number of Outputs	1
DC Output Rating	0 to 8 V/3 A or 0 to 20 V/1.5 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: 5.3 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
Operating temperature	Rating: 0 C to 40 C for stated output ratings
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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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Notes

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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 ·
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.