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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3645A DC Power Supply

HP Agilent E3645A Programmable DC Power Supply The Agilent/Keysight E3645A 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 E3645A 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
E3645A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3645A

LISTING

<https://aumictechlabs.com/products/e3645a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E3645A is a programmable DC power supply for benchtop and system integration use, delivering stable, low-noise power across dual voltage and current ranges.

Operating from 0 to 35 Vdc at 0–2.2 A or 0 to 60 Vdc at 0–1.3 A with a maximum power output of 80 W, this unit combines precision voltage and current control with automated test capability. Built-in GPIB and RS-232 interfaces support SCPI programming, enabling remote operation and integration into larger test systems.

Technical Specifications

Output Ratings (0°C to 40°C)

Range 1: 0–35 Vdc at 0–2.2 A Range 2: 0–60 Vdc at 0–1.3 A Maximum Power: 80 W Programming Accuracy (25°C ±5°C) Voltage: $\pm(0.05\% \text{ of output} + 10 \text{ mV})$ Current: $\pm(0.2\% \text{ of output} + 10 \text{ mA})$ Regulation Performance Load Regulation (Voltage): $<0.01\% + 3 \text{ mV}$ Load Regulation (Current): $<0.01\% + 250 \mu\text{A}$ Line Regulation (Voltage): $<0.01\% + 3 \text{ mV}$ Line Regulation (Current): $<0.01\% + 250 \mu\text{A}$ Ripple and Noise (20 Hz to 20 MHz) Voltage (RMS): $<0.5 \text{ mVrms}$; (Peak-to-Peak): $<8 \text{ mVpp}$ Current (RMS): $<4 \text{ mArms}$; Common Mode: $<1.5 \mu\text{Arms}$ Readback Accuracy (25°C ±5°C) Voltage: $<0.05\% + 5 \text{ mV}$ Current: $<0.15\% + 5 \text{ mA}$ Transient Response Voltage settling time: $<90 \text{ msec}$ at any output load condition

Key Features

User-configurable overvoltage and overcurrent protection circuits Remote sensing capability to eliminate load lead voltage drops Dual front and rear output terminals with versatile binding posts accommodating test leads, banana plugs, and stripped wires Non-volatile memory stores and recalls up to five operating states Vacuum fluorescent digital display with rotary knob control and self-guiding keypads Automatic speed-controlled cooling fan for low acoustic noise Integrated carrying handle for benchtop portability Dimensions: 88.5 mm (H) × 212.8 mm (W) × 348.3 mm (D); Weight: 14.77 lb (6.7 kg)

Compatibility & Integration

Standard GPIB (IEEE-488) and RS-232 interfaces with SCPI language support enable direct integration into automated test environments. VXI plug-and-play software drivers are available for Agilent VEE, National Instruments LabView, and LabWindows, streamlining code development and system configuration.

E3645A Characteristics / Specifications

PARAMETER	VALUE
Maximum Power	80 W
Number of Outputs	1
DC Output Rating	0 to 35 V/2.2 A or 0 to 60 V/1.3 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 8 mVpp / 1 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: 6.7 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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Number of Outputs	1
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Load Regulation Current	less than 0.01% + 250 uA
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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 0.05% + 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
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Transient Response	less than 50 us to within 15 mV half to full load
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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
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Notes

From Keysight E3640A to E3649A Programmable DC Power Supplies data sheet (5968-7355EN). Accuracies are 12-month values at 25 C +/-5 C after 1-hour warm-up with no load and calibration at 25 C. Dual-output Output 2 programming/readback offsets differ as noted on the OEM sheet.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.