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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E3616A 60W Power Supply, 35V, 1.7A

HP Agilent E3616A Bench Series DC Power Supply The Agilent E3616A is a single-range bench DC power supply in the E3614A–E3617A 60 W family. OEM output is 0 to 35 V, 0 to 1.7 A (60 W class) with adjustable overvoltage protection, remote sensing, rear outputs, and remote analog voltage/resistance programming. Bench and light ATE bias needing remote sense and OVP, tracking or higher-power stacks of multiple supplies, and lab work where analog remote programming replaces GPIB. Remote analog voltage and resistance programming The Agilent E3616A is a single-range bench DC power supply in the E3614A–E3617A 60 W family. OEM output is 0 to 35 V, 0 to 1.7 A (60 W class) with adjustable overvoltage protection, remote sensing, rear outputs, and remote analog voltage/resistance programming. Bench and light ATE bias needing remote sense and OVP, tracking or higher-power stacks of multiple supplies, and lab work where analog remote programming replaces GPIB. Remote analog voltage and resistance programming Floating outputs isolatable to ± 240 Vdc from ground



MODEL

**Agilent / Keysight
E3616A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E3616A

LISTING

<https://aumictechlabs.com/products/e3616a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E3616A is a 60W single-output DC power supply for benchtop test and measurement applications. It delivers 0–35V at 0–1.7A with exceptional line and load regulation of

<0.01% + 2mV in constant voltage mode. The unit operates in both CV and CC modes with automatic transition based on load conditions, providing continuously acting overload protection and adjustable overvoltage protection to safeguard connected devices. Precise voltage and current adjustment is enabled through 10-turn potentiometers and remote analog programming via 0–10V inputs with 0.5% linearity. Output recovery following transient load changes occurs in <50 µsec to within 15mV. Ripple and noise measure <200 µV rms and <1 mV p-p across the 20 Hz to 20 MHz band. Remote sensing compensates for voltage drops up to 0.5V per lead with <0.5 ohm resistance per sense lead and <5 meters lead length.

Technical Specifications

Output: 0–35V, 0–1.7A, 60W single output

Line Regulation (CV/CC): <0.01% + 2mV / <0.01% + 250µA

Load Regulation (CV/CC): <0.01% + 2mV / <0.01% + 250µA

Ripple & Noise: <200 µV rms, <1 mV p-p (20 Hz–20 MHz)

Load Transient Response: <50 µsec to within 15mV

Warm-up Drift (8 hrs): <0.1% + 5mV voltage; <0.1% + 10mA current

Operating Range: 0°C to 40°C full output; 1% current derating per °C from 40°C to 55°C

DC Isolation: ±240 Vdc between output terminals and earth ground

Remote Programming: 0–10V input, 0.5% linearity, ±40V protection

Key Features

- Constant voltage and constant current modes with automatic transition
- Adjustable overvoltage protection for device safeguarding
- Remote sensing with up to 0.5V per-lead voltage drop compensation
- Auto-parallel, auto-series, and auto-tracking configurations supported
- Front and rear output terminals for flexible integration
- Convection cooling; Class I safety rating (earth-grounded)

Typical Applications

- Component and subsystem characterization requiring stable, low-noise power
- Device testing with programmable voltage and current limits
- Multi-unit configurations for increased output capability

Compatibility & Integration

Supports remote analog programming and remote sensing for automated test systems. DC isolation of ±240 Vdc enables flexible grounding schemes. Output terminals on front and rear panels accommodate both bench and rack-mount configurations.

E3616A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
Number of Output Ranges	1
GPIB	No
Output Rating	0 to 35 V, 0 to 1.7 A
Maximum Power	60 W
Load Regulation Voltage	Less than 0.01% + 2 mV
Line Regulation Voltage	Less than 0.01% + 2 mV
Line Regulation Current	Less than 0.01% + 250 μ A
Ripple Voltage RMS 20 Hz to 20 MHz	Less than 200 μ V
Ripple Voltage Peak to Peak	Less than 1 mV
Ripple Current RMS	Less than 500 μ A rms
OVP Trip Range	2.5 to 39 V
OVP Margin Above Output	4% of output + 2 V minimum
Remote Analog Programming Input	0 to 10 V for zero to full scale Linearity: 0.5% voltage; 0.5% current
Programming Input Protection	Up to $\pm$ 40 V
Meter Resolution Voltage	10 mV (0 to 20 V), 100 mV (above 20 V)
Meter Resolution Current	1 mA
Transient Response Time	Less than 50 μ s to within 15 mV for full to half load
Isolation	$\pm$ 240 Vdc
Operating Temperature Full Output	0 to 40 C
Current Derating Above 40 C	1% per C to 55 C
Cooling	Convection
Size	213 mmWx 91 mmHx 373 mmD Net Weight: 5.5 kg (12.1 lb)
Shipping Weight	6.75 kg (14.9 lb)

PARAMETER	VALUE
Operating temperature	Full Output: 0 to 40 C

General Specifications & Supplementary Characteristics

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Operating temperature	Full Output: 0 to 40 C
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Cooling	Convection
Size	213 mmWx 91 mmHx 373 mmDNet Weight: 5.5 kg (12.1 lb)
Shipping Weight	6.75 kg (14.9 lb) Notes Specs from Agilent E361xA 60 W Bench Series Operating and Service Manual and E3600-series catalog for E3616A.

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
Number of Output Ranges	1
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Output Rating	0 to 35 V, 0 to 1.7 A
Maximum Power	60 W
Load Regulation Voltage	Less than 0.01% + 2 mV
Line Regulation Voltage	Less than 0.01% + 2 mV
Line Regulation Current	Less than 0.01% + 250 uA
Ripple Voltage RMS 20 Hz to 20 MHz: Less than 200 uV	
Specifications	
PARAMETER	VALUE
Ripple Voltage Peak to Peak	Less than 1 mV
Ripple Current RMS	Less than 500 uA rms
OVP Trip Range	2.5 to 39 V
OVP Margin Above Output	4% of output + 2 V minimum
Remote Analog Programming Input	0 to 10 V for zero to full scaleVorIRemote Analog Programming Linearity: 0.5% voltage; 0.5% current
Programming Input Protection	Up to ±40 V
Meter Accuracy 25±5 C: ±(0.5% of output + 2 counts)	
Specifications	
PARAMETER	VALUE
Meter Resolution Voltage	10 mV (0 to 20 V), 100 mV (above 20 V)
Meter Resolution Current	1 mA
Transient Response Time	Less than 50 us to within 15 mV for full to half load
Isolation	±240 Vdc

PARAMETER	VALUE
Operating Temperature Full Output	0 to 40 C
Current Derating Above 40 C	1% perCto 55 C
Cooling	Convection
Size	213 mmWx 91 mmHx 373 mmDNet Weight: 5.5 kg (12.1 lb)
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Notes
Specs from Agilent E361xA 60 W Bench Series Operating and Service Manual and E3600-series catalog for E3616A.

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.