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Data Sheet
August 14, 2026

HP / AGILENT

HP / Agilent 3616A Power Supply

HP Agilent 3616A / E3616A Bench Series DC Power Supply The Agilent 3616A / E3616A isasingle-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 3616A / E3616A isasingle-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	CALIBRATION
HP / Agilent 3616A	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
3616A	https://aumictechlabs.com/products/3616a-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 3616A is a 60 W DC power supply delivering adjustable voltage and current outputs across 0–35 V and 0–1.7 A respectively. Dual-mode operation supports both Constant Voltage (CV) and Constant Current (CC), with load and line regulation of 0.01% + 2 mV and output

noise of 200 µV RMS across the 20 Hz to 20 MHz band. Ten-turn potentiometers enable precise manual adjustment, while remote analog programming and remote sensing - with automatic lead-drop compensation - support flexible bench and system integration. Adjustable front-panel overvoltage protection safeguards the device under test. The unit accommodates auto-parallel, auto-series, and auto-tracking configurations, making it suitable for multi-supply test setups. Front and rear output terminals provide connectivity options for both direct connection and remote operation. Current rating decreases 1% per °C between 40° and 55°C operating temperature. Technical Specifications Power: 60 W maximum Voltage Output: 0 to 35 V Current Output: 0 to 1.7 A Load & Line Regulation: 0.01% + 2 mV Output Noise: 200 µV RMS, 1 mV peak-to-peak (20 Hz to 20 MHz) Control: 10-turn potentiometers for voltage and current adjustment Protection: Adjustable overvoltage protection with front-panel monitoring Temperature Derating: 1% per °C between 40° and 55°C Key Features Constant Voltage and Constant Current output modes Remote analog programming capability Remote sensing with automatic voltage drop compensation across load leads Dual output terminals (front and rear) Auto-parallel, auto-series, and auto-tracking operation LED display Compact bench-top form factor Typical Applications Laboratory power sourcing for circuit development and validation Device characterization under programmable load conditions Multi-supply test configurations via parallel or series operation Production test environments requiring adjustable voltage and current limits Compatibility & Integration Remote analog programming enables integration into automated test systems. Remote sensing eliminates measurement errors from lead resistance in extended cable runs. Multi-unit configurations support synchronized voltage/current tracking or independent parallel/series stacking.

3616A 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 uA
Ripple Voltage RMS 20 Hz to 20 MHz	Less than 200 uV
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 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
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)
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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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 3616A / 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

Specifications

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Number of Output Ranges	1
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Maximum Power	60 W
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Ripple Voltage RMS 20 Hz to 20 MHz: Less than 200 uV

Specifications

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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

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Notes
Specs from Agilent E361xA 60 W Bench Series Operating and Service Manual and E3600-series catalog for 3616A / 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

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