

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

KEITHLEY

Keithley 246 High Voltage Supply High Voltage

The Keithley 246 is a high-voltage source measure unit (SMU) designed for precision sourcing and measurement of voltage and current. It combines a high-voltage power supply with a digital multimeter, offering capabilities for I-V characterization and testing of various electronic components and materials. It features a wide voltage range and precise control, making it suitable for applications requiring high-voltage sourcing and measurement.



MODEL

Keithley 246

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

246

LISTING

<https://aumictechlabs.com/products/246-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 246 High Voltage Supply delivers precision DC sourcing from 0 to 3100 V with maximum output current of 10 mA, integrated with built-in metering for voltage monitoring and polarity verification. This instrument combines high-voltage generation with accurate measurement capability, enabling I-V characterization across biasing, resistivity assessment, and leakage testing applications. Solid-state comparator amplifier and stacked series regulator tubes provide $\pm 1\%$ dial accuracy and exceptional long-term stability of $\pm 0.01\% + 2 \text{ mV}$ over 8-hour periods following warm-up. Technical Specifications Output Voltage: 0 to 3100 V DC; three calibrated in-line dials with 10 V steps; potentiometer interpolation ($\leq 50 \text{ mV}$ resolution); selectable positive or negative polarity relative to chassis Output Current: 10 mA maximum; electronic current limiting to $< 13 \text{ mA}$ with automatic 1-second recovery Accuracy: $\pm 1\%$ of dial setting Stability: $\pm 0.01\% + 2 \text{ mV}$ (after 1-hour warm-up, per 8-hour period) Line Regulation: $0.001\% + 2$

mV across 10% line voltage variation Load Regulation: 0.002% + 2 mV (no-load to full-load)
Ripple and Noise: <1 mV RMS above 5 cps Power Input: 105-125 VAC or 210-250 VAC, switch-selectable, 50-60 Hz; 105 W consumption Output Connectors: MHV series (UG-931/U) on front and rear panelsKey Features Overload-tolerant design withstands repeated overload conditions without degradation Metal-film resistors and selected zener diode ensure operational reliability Remote control and programming capability via rear-panel connectors Metering function provides real-time output voltage and polarity verificationTypical Applications High-voltage biasing for photomultiplier tubes, ion chambers, photocells, and current detectors Voltage gradient studies and surface/volume resistivity measurements Capacitor leakage characterizationCompatibility & Integration Physical footprint: 5.25 in H × 19 in W × 10 in D; 25 lb net weight. MHV connectors enable integration into existing test systems requiring dual front/rear panel access.

Features & description

From manufacturer datasheet

Technical Specifications

Output Voltage: 0 to 3100 V DC; three calibrated in-line dials with 10 V steps; potentiometer interpolation (≤ 50 mV resolution); selectable positive or negative polarity relative to chassis Output Current: 10 mA maximum; electronic current limiting to <13 mA with automatic 1-second recovery Accuracy: $\pm 1\%$ of dial setting Stability: $\pm 0.01\% + 2$ mV (after 1-hour warm-up, per 8-hour period) Line Regulation: $0.001\% + 2$ mV across 10% line voltage variation Load Regulation: $0.002\% + 2$ mV (no-load to full-load) Ripple and Noise: <1 mV RMS above 5 cps Power Input: 105-125 VAC or 210-250 VAC, switch-selectable, 50-60 Hz; 105 W consumption Output Connectors: MHV series (UG-931/U) on front and rear panels

Key Features

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Keithley 246 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Keithley 246. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Keithley 246 price

This Keithley 246 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Keithley 246 calibration cost

NIST-traceable calibration for the Keithley 246 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

High-voltage biasing for photomultiplier tubes, ion chambers, photocells, and current detectors Voltage gradient studies and surface/volume resistivity measurements Capacitor leakage characterization Compatibility & Integration Physical footprint: 5.25 in H × 19 in W × 10 in D; 25 lb net weight. MHV connectors enable integration into existing test systems requiring dual front/rear panel access.

Unit notes

The Keithley 246 High Voltage Supply delivers precision DC sourcing from 0 to 3100 V with maximum output current of 10 mA, integrated with built-in metering for voltage monitoring and polarity verification. This instrument combines high-voltage generation with accurate measurement capability, enabling I-V characterization across biasing, resistivity assessment, and leakage testing applications. Solid-state comparator amplifier and stacked series regulator tubes provide $\pm 1\%$ dial accuracy and exceptional long-term stability of $\pm 0.01\% + 2 \text{ mV}$ over 8-hour periods following warm-up. Technical Specifications Output Voltage: 0 to 3100 V DC; three calibrated in-line dials with 10 V steps; potentiometer interpolation ($\leq 50 \text{ mV}$ resolution); selectable positive or negative polarity relative to chassis Output Current: 10 mA maximum; electronic current limiting to $< 13 \text{ mA}$ with automatic 1-second recovery Accuracy: $\pm 1\%$ of dial setting Stability: $\pm 0.01\% + 2 \text{ mV}$ (after 1-hour warm-up, per 8-hour period) Line Regulation: $0.001\% + 2 \text{ mV}$ across 10% line voltage variation Load Regulation: $0.002\% + 2 \text{ mV}$ (no-load to full-load) Ripple and Noise: $< 1 \text{ mV RMS}$ above 5 cps Power Input: 105-125 VAC or 210-250 VAC, switch-selectable, 50-60 Hz; 105 W consumption Output Connectors: MHV series (UG-931/U) on front and rear panels Key Features Overload-tolerant design withstands repeated overload conditions without degradation Metal-film resistors and selected zener diode ensure operational reliability Remote control a

246 Specifications

PARAMETER	VALUE
Voltage / Current Range	0-10 mA, 0-3100 V DC

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.

The Keithley 246 is a high-voltage source measure unit (SMU) designed for precision sourcing and measurement of voltage and current. It combines a high-voltage power supply with a digital multimeter, offering capabilities for I-V characterization and testing of various electronic components and materials. It features a wide voltage range and precise control, making it suitable for applications requiring high-voltage sourcing and measurement.

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Compatibility & Integration Physical footprint: 5.25 in H $\times$ 19 in W $\times$ 10 in D; 25 lb net weight. MHV connectors enable integration into existing test systems requiring dual front/rear panel access.

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

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Compatibility & Integration Physical footprint: 5.25 in H × 19 in W × 10 in D; 25 lb net weight. MHV connectors enable integration into existing test systems requiring dual front/rear panel access.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.