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Data Sheet
August 13, 2026

KEITHLEY

Keithley 247 DC Power Supply

Keithley 247 High Voltage DC Power Supply 3 kV 6 mA The Model 247 is a 0 to 3 kV DC laboratory high-voltage supply rated 6 mA maximum with reversible polarity relative to chassis. Accuracy is ±(0.25% of setting + 1.5 V) from 1% to 100% of full scale at 18 to 28 C. Line regulation is 0.001% for 10% line change; load regulation is 0.005% no-load to full-load. Ripple is 3.5 mV rms / 10 mV p-p at 3 kV, 6 mA. Rear MHV connector (UG931/U class). Complements electrometer resistivity, PMT, and ion-chamber bias. The Model 247 is a 0 to 3 kV DC laboratory high-voltage supply rated 6 mA maximum with reversible polarity relative to chassis. Accuracy is ±(0.25% of setting + 1.5 V) from 1% to 100% of full scale at 18 to 28 C. Line regulation is 0.001% for 10% line change; load regulation is 0.005% no-load to full-load. Ripple is 3.5 mV rms / 10 mV p-p at 3 kV, 6 mA. Rear MHV connector (UG931/U class). Complements electrometer resistivity, PMT, and ion-chamber bias. Photomultiplier tube bias; high-resistance and resistivity tests with electrometers; ion chambers and radiation detectors; general 3 kV laboratory bias; polarity-reversible insulation tests.

MODEL Keithley 247	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 247	LISTING https://aumictechlabs.com/products/247-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Keithley 247 is a precision-regulated linear DC power supply delivering 0 to 3 kV DC at up to 6 mA for high-voltage measurement applications. This unit combines AC-to-DC conversion with a solid-state DC converter topology, generating stable, low-noise outputs suitable for sensitive

instrumentation. Its fully encapsulated high-voltage assembly ensures arc-free operation across demanding test environments. The 247 excels in photomultiplier tube characterization, resistivity measurements, ion chamber biasing, and radiation detection systems. It pairs directly with Keithley electrometers and picometers, providing the regulated bias voltage these instruments require. Polarity selection - positive or negative with respect to chassis - accommodates varied circuit topologies. Technical Specifications Output Performance Voltage: 0 to 3 kV DC Maximum current: 6 mA DC Power output: 18 W Accuracy: ±0.25% of setting + 1.5 V DC (1% to 100% of max voltage) Dial resolution: 200 mV graduations Stability: ±0.01% of setting per hour Line regulation: 0.001% voltage change per 10% line variation Load regulation: 0.005% voltage change from no-load to full-load Ripple and noise: 3.5 mVrms, 10 mVp-p at 3 kV / 6 mA; 1 mVrms, 3 mVp-p at 1 kV / 1 mA (10 Hz to 100 kHz) Settling time: 4 seconds to ±1 V with full resistive load Input Power AC voltage: 90–125 V / 180–250 V selectable Frequency: 50–60 Hz Consumption: 130 VA Environmental Operating temperature: 0°C to 50°C Operating humidity: 0% to 80% RH (up to 35°C) Storage temperature: −40°C to 75°C Key Features Selectable positive or negative polarity Short-circuit proof with arc-protected, self-restoring design MHV Type UG931/U rear-panel output connector Compact 19 in × 3.5 in × 10.75 in form factor (483 mm × 89 mm × 273 mm) Four rack-mount holes; bench feet included Weight: 5.9 kg (13 lbs) Typical Applications Photomultiplier tube bias and characterization Resistivity and conductivity measurements Ion chamber operation Radiation detection systems Precision electrometer biasing Compatibility & Integration Ship includes UG932/U mating connector and instruction manual. Mounts in standard 19-inch racks or operates on bench with supplied feet.

Features & description

From manufacturer datasheet

Features

- Front-panel voltage monitor meter

247 Characteristics / Specifications

PARAMETER	VALUE
Model	247
Manufacturer	Keithley Instruments
Instrument Type	High voltage DC power supply
Alias	247
Output voltage	0 to 3 kV DC
Output current	6 mA DC maximum
Polarity	positive or negative with respect to chassis
Accuracy 18 to 28 C	±(0.25% of setting + 1.5 V DC) from 1% to 100% of maximum
Resolution	dial graduations of 200 mV
Stability per hour	0.01% of setting after 1 hour warm-up at constant temperature
Stability 8 hour	0.02% of setting after 1 hour warm-up
Temperature coefficient	50 ppm/C (0 to 18 C and 28 to 50 C)
Line regulation	0.001% voltage change for 10% line variation
Load regulation	0.005% voltage change no load to full load
Ripple at 3 kV 6 mA	3.5 mV rms, 10 mV peak to peak (10 Hz to 100 kHz)
Ripple at 1 kV 1 mA	1 mV rms, 3 mV peak to peak (10 Hz to 100 kHz)
Settling time	4 s to within 1 V with full resistive load
Overload	short circuit proof, arc protected, self restoring
HV connector	rear panel MHV Type UG931/U class
Meter	monitors voltage output
Power	90-125 V / 180-250 V, 50-60 Hz, 130 VA
Operating	0 C to 50 C, 0 to 80% RH to 35 C
Storage	-40 C to 75 C class
Related	Model 248 5 kV / 5 mA programmable GPIB HV supply
Form	bench high voltage supply

PARAMETER	VALUE
Use	electrometer companion HV bias Notes Specs from Keithley Model 247 High Voltage Power Supply documentation (RevBclass). Observe HV safety; confirm polarity switch and MHV cable. Not the 248 GPIB 5 kV supply.

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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Model	247
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Instrument Type	High voltage DC power supply

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Output current	6 mA DC maximum

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PARAMETER	VALUE
Line regulation	0.001% voltage change for 10% line variation
Load regulation	0.005% voltage change no load to full load
Ripple at 3 kV 6 mA	3.5 mV rms, 10 mV peak to peak (10 Hz to 100 kHz)

Specifications

PARAMETER	VALUE
Ripple at 1 kV 1 mA	1 mV rms, 3 mV peak to peak (10 Hz to 100 kHz)
Settling time	4 s to within 1 V with full resistive load
Overload	short circuit proof, arc protected, self restoring

Specifications

PARAMETER	VALUE
HV connector	rear panel MHV Type UG931/U class
Meter	monitors voltage output
Power	90-125 V / 180-250 V, 50-60 Hz, 130 VA

Specifications

PARAMETER	VALUE
Operating	0 C to 50 C, 0 to 80% RH to 35 C
Storage	-40 C to 75 C class
Related	Model 248 5 kV / 5 mA programmable GPIB HV supply

Form: bench high voltage supply

Use: electrometer companion HV bias

Notes

Specs from Keithley Model 247 High Voltage Power Supply documentation (RevBclass). Observe HV safety; confirm polarity switch and MHV cable. Not the 248 GPIB 5 kV supply.

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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