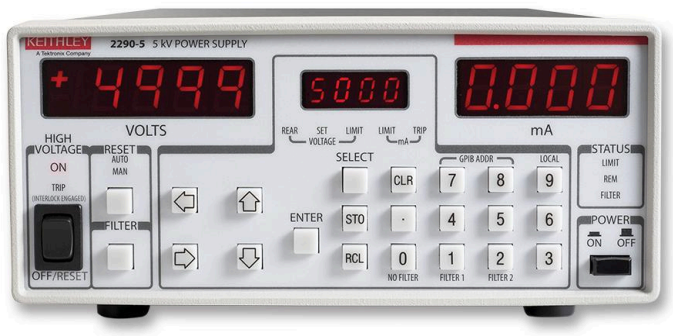
Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 12, 2026

KEITHLEY

Keithley 2290-5 – 5KV Power Supply

Keithley High Voltage Power Supplies. Resolution: 1 V (set and display), Accuracy: ±(0.01% of setting + 2.5 V), Accuracy: ±1 V typical (±2 V maximum).



MODEL	CALIBRATION
Keithley 2290-5	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
2290-5	https://aumictechlabs.com/products/2290-5-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2290-5 is a precision high-voltage DC power supply engineered for semiconductor testing, materials research, and high-energy physics experiments. It delivers up to 5 kV with a maximum output current of 5.000 mA, providing 25 W of power. The unit combines exceptional voltage stability with low output noise, offering both filtered and unfiltered operation modes to meet demanding measurement requirements.Technical Specifications Output Voltage Range: 50 V to 5000 V DC Resolution: 1 V (set and display) Set Accuracy: ±(0.01% of setting + 2.5 V) Display Accuracy: ±1 V typical (±2 V maximum) Line Regulation: 0.001% for ±10% line voltage change Load Regulation: 0.005% for 100% load change (typical) Output Current Maximum: 5.000 mA DC Resolution: 1 µA Set Accuracy: ±(0.01% of setting + 2.5 µA) Display Accuracy: ±1 µA typical (±2 µA maximum) Trip Response Time: <10 ms Output Ripple & Noise (10 Hz – 100 kHz) Unfiltered: 1.0 mV RMS @ 1 kV; 2.0 mV RMS @ 3 kV; 3.0 mV RMS @ 5 kV With Filter 1 or Filter 2: <3 mV RMS Stability & Temperature Voltage Stability: ±0.01% per hour; <0.03% per eight hours Temperature Drift: 50 ppm/°C (0° to 40° C, typical) Response Characteristics Rise Time (full load): 1.5 seconds (0 to 5000 V, unfiltered); 4 seconds with Filter 2 Discharge Time (full load): 1 second (5000 V DC

to 1 V DC) Settling Time: Within 99.9% of final value in 3 seconds Recovery Time: 120 ms for 40% load current step change (typical) Stored Output Charge: <0.9 mC maximum Arc and Short Circuit Protection: ProvidedKey Features Selectable output filters to reduce ripple below 3 mV RMS Current limit and trip capability (0 to 105% of full scale) Fast trip response (<10 ms) for circuit protection Low temperature drift and exceptional long-term stability Quick discharge capability (<12 to 30 seconds, depending on filter mode)Typical Applications Semiconductor device and materials testing High-voltage component characterization High-energy physics experiments Dielectric breakdown studiesCompatibility & Integration Input Power Voltage: 120 V ±10%, 50 or 60 Hz (98 to 132 VAC) Input Power: 55 watts Interface IEEE-488.1 (GPIB) compliant, programmable GPIB Address Range: 0 to 30 Requires shielded GPIB cables (e.g., Keithley Model 7007)

Features & description

From manufacturer datasheet

Technical Specifications

Range: 50 V to 5000 V DC Resolution: 1 V (set and display) Set Accuracy: ±(0.01% of setting + 2.5 V) Display Accuracy: ±1 V typical (±2 V maximum) Line Regulation: 0.001% for ±10% line voltage change Load Regulation: 0.005% for 100% load change (typical) Output Current Maximum: 5.000 mA DC Resolution: 1 µA Set Accuracy: ±(0.01% of setting + 2.5 µA) Display Accuracy: ±1 µA typical (±2 µA maximum) Trip Response Time: <10 ms Output Ripple & Noise (10 Hz – 100 kHz) Unfiltered: 1.0 mV RMS @ 1 kV; 2.0 mV RMS @ 3 kV; 3.0 mV RMS @ 5 kV With Filter 1 or Filter 2: <3 mV RMS Stability & Temperature Voltage Stability: ±0.01% per hour; <0.03% per eight hours Temperature Drift: 50 ppm/°C (0° to 40° C, typical) Response Characteristics Rise Time (full load): 1.5 seconds (0 to 5000 V, unfiltered); 4 seconds with Filter 2 Discharge Time (full load): 1 second (5000 V DC to 1 V DC) Settling Time: Within 99.9% of final value in 3 seconds Recovery Time: 120 ms for 40% load current step change (typical) Stored Output Charge: <0.9 mC maximum Arc and Short Circuit Protection: Provided

Key Features

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Compatibility & Integration Input Power

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Keithley 2290-5 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Keithley 2290-5. 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 2290-5 price

This Keithley 2290-5 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Keithley 2290-5 calibration cost

NIST-traceable calibration for the Keithley 2290-5 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

Semiconductor device and materials testing High-voltage component characterization High-energy physics experiments Dielectric breakdown studies

Unit notes

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2290-5 Specifications

PARAMETER	VALUE
Voltage / Current Range	0-5.000 mA DC, 50-5000 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.

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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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