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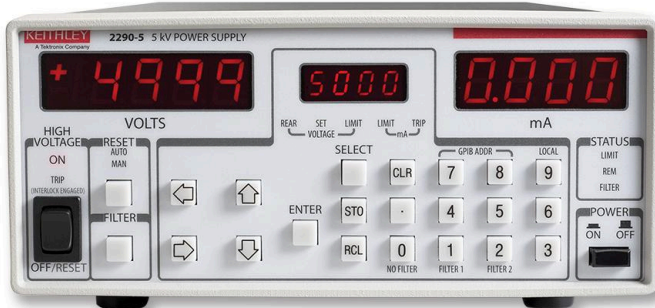
Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

KEITHLEY

Keithley 2290E-5 – 5KV Power Supply

Keithley High Voltage Power Supplies. Current: 5 mA, Resolution: 1 V, Resolution: 1 μ A.

MODEL

Keithley 2.29E-02

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2.29E-02

LISTING

<https://aumictechlabs.com/products/2-29e-02-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2290E-5 is a single-output 5 kV DC power supply engineered for high-voltage component testing, materials research, insulation validation, and high-energy physics experiments. It delivers precise programmable voltage and current control across a 50 V to 5000 V range with 5 mA maximum output current and 55 W maximum power. The instrument combines low-noise performance - down to 1.0 mVRMS at 1 kV with selectable filtering - with fast transient response and arc/short-circuit protection, making it suitable for applications demanding both accuracy and safety. Technical Specifications Output Performance Voltage Range: 50 V to 5000 V Maximum Current: 5 mA Maximum Power: 55 W Voltage Resolution: 1 V Current Resolution: 1 μ A Voltage Set Accuracy: ± 1 V typical (± 2 V max); $\pm (0.01\%$ of setting + 2.5 V) Current Set Accuracy: 0.5% of full scale; $\pm (0.01\%$ of setting + 2.5 μ A) Stability & Noise Output Ripple Noise: 100 mVRMS (unfiltered); <3 mVRMS (filtered); 1.0 mVRMS @ 1 kV; 3.0 mVRMS @ 5 kV with Filter 2 Line Regulation: 0.001% for $\pm 10\%$ input voltage change Load Regulation: 0.005% for 100% load change Stability: $\pm 0.01\%$ per hour; <0.03% per eight hours Temperature Drift: 50 ppm/ $^{\circ}$ C (0 $^{\circ}$ to 40 $^{\circ}$ C) Dynamic Response Settling Time: <4 seconds to within 1 V of final value; 99.9% within 3

seconds Recovery Time: 120 ms (40% step load change) Discharge Time: <6 seconds to <1% full scale (typical); <30 seconds to 50 VDC with filter Power Input Nominal: 240 VAC Range: 216 VAC to 264 VAC ($\pm 10\%$) Frequency: 50 or 60 Hz Key Features Programmable voltage and current limits with arc and short-circuit protection Selectable output filters for noise minimization in sensitive measurements Safety interlock system for high-voltage operations Digital display for real-time output monitoring Analog control via external 0 to +10 V input ($\pm 0.2\%$ accuracy) with 1 M Ω impedance Analog monitor outputs on BNC connectors for voltage and current observation Stored output charge: <20 μC maximum Typical Applications Component and device characterization under high-voltage stress Dielectric breakdown and insulation testing Materials research requiring high electric fields High-energy physics detector and accelerator studies Compatibility & Integration IEEE-488 interface for remote programmability Analog control and monitoring outputs for integration into automated test systems

229E Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range No Filter	50 to plus 5000 V DC
Maximum Current No Filter	5.000 mA DC
Output Voltage Range Filter	50 to plus 3000 V DC
Maximum Current Filter	5.000 mA DC
Voltage Resolution	1 V set and display
Current Resolution	1 uA
Voltage Set Accuracy	plus or minus (0.01 percent of setting plus 2.5 V)
Current Set Accuracy	plus or minus (0.01 percent of setting plus 2.5 uA)
Line Regulation	0.001 percent for plus or minus 10 percent line change
Load Regulation Typical	0.005 percent for 100 percent load change
Output Ripple No Filter	0.002 percent of full scale VRMS 10 kHz to 100 kHz
Ripple Filter 1 Or 2 At 1 kV	1.0 mVRMS
Ripple Filter 2 At 5 kV	3.0 mVRMS
Input Power	55 W
Operating Temperature	0 to 40 C non-condensing
Dimensions	89 mmHx 206 mmWx 406 mmDMass: 5.5 kg
Interface Protocol	IEEE-488.1
Hv Connector	SHV male Kings 1704-1 or equivalent
Catalog Alias	2290E-5 also listed as Excel token 2.29E-02

229E Specifications

PARAMETER	VALUE
Key Features	Selectable Filter 1 and Filter 2 for low ripple
Safety interlock enables high voltage output	0 to 10 V analog voltage set and monitor
Technical Specifications	Output Voltage Range No Filter: 50 to plus 5000 V DC

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C non-condensing
Operating Temperature	0 to 40 C non-condensing
Dimensions	89 mmHx 206 mmWx 406 mmDMass: 5.5 kg
Interface Protocol	IEEE-488.1
Hv Connector	SHV male Kings 1704-1 or equivalent
Catalog Alias	2290E-5 also listed as Excel token 2.29E-02 Notes From Keithley/Tektronix Series 2290 High Voltage Power Supplies datasheet 1KW-61672-0. This file aliases the Excel-corrupted catalog token 2.29E-02 to the 2290E-5 240 Vac 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

Specifications

PARAMETER	VALUE
Input Power	55 W
Operating Temperature	0 to 40 C non-condensing
Dimensions	89 mm H x 206 mm W x 406 mm D
Mass	5.5 kg
Interface Protocol	IEEE-488.1
Hv Connector	SHV male Kings 1704-1 or equivalent
Catalog Alias	2290E-5 also listed as Excel token 2.29E-02

Specifications

PARAMETER	VALUE
Output Voltage Range No Filter	50 to plus 5000 V DC
Maximum Current No Filter	5.000 mA DC
Output Voltage Range Filter 1	50 to plus 3000 V DC
Maximum Current Filter 1	5.000 mA DC
Output Voltage Range Filter 2	50 to plus 5000 V DC
Maximum Current Filter 2	3.000 mA DC
Voltage Resolution	1 V set and display
Current Resolution	1 uA
Voltage Set Accuracy	plus or minus (0.01 percent of setting plus 2.5 V)
Current Set Accuracy	plus or minus (0.01 percent of setting plus 2.5 uA)
Line Regulation	0.001 percent for plus or minus 10 percent line change
Load Regulation Typical	0.005 percent for 100 percent load change
Output Ripple No Filter	0.002 percent of full scale VRMS 10 kHz to 100 kHz

Ripple Filter 1 Or 2 At 1 kV: 1.0 mVRMS

Ripple Filter 2 At 5 kV: 3.0 mVRMS

Input Voltage 2290E-5: 240 V plus or minus 10 percent 50 or 60 Hz

Specifications

PARAMETER	VALUE
Input Power	55 W
Operating Temperature	0 to 40 C non-condensing
Dimensions	89 mmHx 206 mmWx 406 mmDMass: 5.5 kg
Interface Protocol	IEEE-488.1
Hv Connector	SHV male Kings 1704-1 or equivalent
Catalog Alias	2290E-5 also listed as Excel token 2.29E-02

Notes
From Keithley/Tektronix Series 2290 High Voltage Power Supplies datasheet 1KW-61672-0. This file aliases the Excel-corrupted catalog token 2.29E-02 to the 2290E-5 240 Vac 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

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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.