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Data Sheet

August 13, 2026

KEITHLEY

Keithley 2231A-30-3

Applications Bench multi-rail digital/analog power USB automated 195 W DC Series 60 V or parallel 6 A combination Teaching-lab triple output Key Features USB only (no GPIB on 2231A versus 2230G) Tracking of the two 30 V channels Combination V1+V2 series and I1+I2 parallel with combined meter Linear low-noise regulation Independent isolated outputs Technical Specifications Model: 2231A-30-3 Manufacturer: Keithley Instruments (Tektronix) Instrument Type: Triple channel DC power supply Alias: 2231A-30-3; 2231A303 Channel 1 Voltage: 0 to 30 V Channel 1 Current: 0 to 3 A Channel 2 Voltage: 0 to 30 V Channel 2 Current: 0 to 3 A Channel 3 Voltage: 0 to 5 V Channel 3 Current: 0 to 3 A Maximum Power: 195 W Load Regulation Voltage: less than or equal to 0.02 percent plus 4 mV Load Regulation Current: less than or equal to 0.



MODEL

Keithley 2231A-30-3

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2231A-30-3

LISTING

<https://aumictechlabs.com/products/2231a-30-3-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley 2231A-30-3 is a triple-channel programmable DC power supply delivering 195 W across three isolated output channels. Two channels provide 0–30 V DC at 0–3 A; the third delivers 0–5 V DC at 0–3 A. Independent control and remote sensing on all outputs enable precise, flexible power delivery for demanding test and measurement applications. The instrument combines high accuracy (0.06% voltage setting, 0.2% current setting), low noise (<5 mVp-p per

output), and onboard setup memory for 30 configurations, making it essential for engineers designing and validating multi-rail circuits in laboratory and system integration environments.

Technical Specifications

Output Configuration Three isolated channels: Channels 1 & 2 (0–30 V, 0–3 A each); Channel 3 (0–5 V, 0–3 A) Total power rating: 195 W Voltage resolution: 10 mV; Current resolution: 1 mA Voltage noise: <5 mVp-p per output Current ripple (20 MHz bandwidth): <6 mA RMS Accuracy & Stability Voltage setting accuracy: 0.06%; readback accuracy: $\pm(0.06\% + 20 \text{ mV})$ at 25 °C ± 5 °C Current setting accuracy: 0.2%; readback accuracy: $\pm(0.2\% + 10 \text{ mA})$ at 25 °C ± 5 °C Voltage temperature coefficient: $\pm(0.03\%$ of setting) per °C outside standard range Current temperature coefficient: $\pm(0.03\%$ of setting) per °C outside standard range Line regulation: Voltage $\pm(0.02\% + 4 \text{ mV})$; Current $\pm(0.2\% + 3 \text{ mA})$ Load regulation: Voltage $\pm(0.02\% + 4 \text{ mV})$; Current $\pm(0.2\% + 3 \text{ mA})$ at 10–90% full scale Power Input & Display Input: 110/230 VAC $\pm 10\%$, 47–63 Hz Display: Vacuum fluorescent (VFD) Mounting: Benchtop Combined Channel Operation Series (Channels 1 & 2): Up to 60 V DC Parallel (Channels 1 & 2): Up to 6 A

Key Features All channels independently controlled with on/off switching per channel Remote sensing on all outputs for accurate voltage application at load terminals Per-channel output timer: 0.1 s to 99999 s for automated test sequences 30 setup memory locations for storing frequently used power configurations Front panel numerical keypad for direct parameter entry

Typical Applications Multi-rail circuit design and validation Board-level power distribution testing Sensor and peripheral device powering during characterization Automated test sequences with programmable timing

Compatibility & Integration 3-year warranty. Isolated outputs enable safe parallel and series combinations for extended voltage and current ranges.

2231A30 Characteristics / Specifications

PARAMETER	VALUE
Model	2231A-30-3
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Triple channel DC power supply
Alias	2231A-30-3; 2231A303
Channel 1 Voltage	0 to 30 V
Channel 1 Current	0 to 3 A
Channel 2 Voltage	0 to 30 V
Channel 2 Current	0 to 3 A
Channel 3 Voltage	0 to 5 V
Channel 3 Current	0 to 3 A
Maximum Power	195 W
Load Regulation Voltage	less than or equal to 0.02 percent plus 4 mV
Load Regulation Current	less than or equal to 0.2 percent plus 3 mA
Line Regulation Voltage	less than or equal to 0.02 percent plus 4 mV
Line Regulation Current	less than or equal to 0.2 percent plus 3 mA
Ripple Voltage	less than or equal to 1 mVrms / 5 mVp-p (20 Hz to 20 MHz)
Ripple Current	less than or equal to 6 mArms
Setting Resolution Voltage	10 mV
Setting Resolution Current	1 mA
Setting Accuracy Voltage	less than or equal to 0.06 percent plus 20 mV
Setting Accuracy Current	less than or equal to 0.2 percent plus 10 mA
Readback Resolution Voltage	10 mV
Readback Resolution Current	1 mA
Isolation Output Chassis	240 V DC plus peak AC (AC limited 3 Vpk-pk, 60 Hz max)
Isolation Output Output	240 V between outputs (same AC limit)

PARAMETER	VALUE
Series Mode	up to 60 V CH1 plus CH2
Parallel Mode	up to 6 A CH1 plus CH2
Remote Interface	USB
Related Higher Power	2230-30-6 375 W Notes Specs from Keithley 2231A-30-3 datasheet. Confirm 2231A (USB, 10 mV resolution) versus 2230-30-3 (1 mV resolution, USB plus RS-232).

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
Model	2231A-30-3
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Triple channel DC power supply
Specifications	
PARAMETER	VALUE
Alias	2231A-30-3; 2231A303
Channel 1 Voltage	0 to 30 V
Channel 1 Current	0 to 3 A
Specifications	
PARAMETER	VALUE
Channel 2 Voltage	0 to 30 V
Channel 2 Current	0 to 3 A
Channel 3 Voltage	0 to 5 V
Specifications	
PARAMETER	VALUE
Channel 3 Current	0 to 3 A
Maximum Power	195 W
Load Regulation Voltage	less than or equal to 0.02 percent plus 4 mV
Specifications	
PARAMETER	VALUE
Load Regulation Current	less than or equal to 0.2 percent plus 3 mA
Line Regulation Voltage	less than or equal to 0.02 percent plus 4 mV
Line Regulation Current	less than or equal to 0.2 percent plus 3 mA

Specifications

PARAMETER	VALUE
Ripple Voltage	less than or equal to 1 mVrms / 5 mVp-p (20 Hz to 20 MHz)
Ripple Current	less than or equal to 6 mArms
Setting Resolution Voltage	10 mV

Specifications

PARAMETER	VALUE
Setting Resolution Current	1 mA
Setting Accuracy Voltage	less than or equal to 0.06 percent plus 20 mV
Setting Accuracy Current	less than or equal to 0.2 percent plus 10 mA

Specifications

PARAMETER	VALUE
Readback Resolution Voltage	10 mV
Readback Resolution Current	1 mA
Isolation Output Chassis	240 V DC plus peak AC (AC limited 3 Vpk-pk, 60 Hz max)

Specifications

PARAMETER	VALUE
Isolation Output Output	240 V between outputs (same AC limit)
Series Mode	up to 60 V CH1 plus CH2
Parallel Mode	up to 6 A CH1 plus CH2

Remote Interface: USB

Related Higher Power: 2230-30-6 375 W

Notes

Specs from Keithley 2231A-30-3 datasheet. Confirm 2231A (USB, 10 mV resolution) versus 2230-30-3 (1 mV resolution, USB plus RS-232).

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>

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.