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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) B2962A 6.5-Digit Low Noise Power Source

Keysight / Agilent B2962A 6.5-Digit Low Noise Power Source The B2962A is a 2-channel 6.5-digit bipolar (4-quadrant) low-noise power source: up to ± 210 V / ± 3.03 A / 31.8 W class per channel family rating, with optional external ultra-low-noise filters down to 10 μ Vrms. The B2962A is a 2-channel 6.5-digit bipolar (4-quadrant) low-noise power source: up to ± 210 V / ± 3.03 A / 31.8 W class per channel family rating, with optional external ultra-low-noise filters down to 10 μ Vrms.



MODEL

**Keysight / Agilent
B2962A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

B2962A

LISTING

<https://aumictechlabs.com/products/b2962a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight B2962A is a dual-channel, 6.5-digit low-noise power source engineered for precision characterization of noise-sensitive devices and complex test scenarios. It delivers exceptional resolution - 100 nV and 10 fA - across bipolar output ranges reaching ± 210 V DC and ± 3.03 A DC, with pulsed capability to ± 10.5 A. Four-quadrant operation enables both sourcing and sinking, while the optional ultra-low noise filter achieves 10 μ Vrms and 1 nV/ $\sqrt{\text{Hz}}$ at 10 kHz. Technical Specifications Output Performance Dual-channel configuration with 6.5-digit resolution Voltage resolution: 100 nV minimum Current resolution: 10 fA minimum DC output: ± 210

V at ± 3.03 A Pulsed output: ± 200 V at ± 10.5 A Maximum power: 31.8 W Four-quadrant operation (source and sink capability) Noise Characteristics Ultra-low noise filter option: 10 μV_{rms} (10 Hz – 20 MHz) Noise density: 1 nV/ $\sqrt{\text{Hz}}$ at 10 kHz Arbitrary Waveform & Pulse Generation Frequency range: 1 mHz – 10 kHz Pre-defined waveforms: Sinusoidal, Exponential, Ramp, Triangle, Square, Trapezoidal Pulse width programmable from 50 μs minimum with 1 μs resolution Sweep modes: Linear, Logarithmic, List Programmable output resistance emulation Measurement Monitoring Voltage/current monitor: 4.5-digit resolution Monitor voltage resolution: 10 μV minimum Monitor current resolution: 1 pA minimum Built-in time domain waveform viewerKey Features Compact form factor: 41 mm (H) $\times$ 58.2 mm (W) $\times$ 141.5 mm (D) Weight: 0.3 kg Operating temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ Safety compliance: Installation Category II (mains), Category I (measurement input)Compatibility & Integration USB 2.0, LAN (LXI Class C), GPIB, Digital I/O SCPI programming support Software drivers: IVI-C, IVI-CoM, LabVIEW Keysight BenchVue and Quick I/V Measurement Software compatibility Web browser control via LXI interface

Features & description

From manufacturer datasheet

Features

• Channels: 2 • Resolution: 6.5 digit • Min resolution: 100 nV / 10 fA class (source) • Max voltage/current/power class: 210 V / 3 A / 32 W (model headline) • 4-quadrant bipolar operation • Noise 0.1–10 Hz: ~5 μ Vpp • Noise 10 Hz–20 MHz (no filter): 3 mVrms class • With ULNF/HC-ULNF: 10 μ Vrms; 1 nVrms/ $\sqrt{\text{Hz}}$ @ 10 kHz • Filter options: N1294A-020 HC-ULNF 21 V/500 mA; -021 ULNF 42 V/105 mA; -022 LNF 210 V/3 A • Outputs: DC; pulsed / sweep / arb (voltage; filter-dependent) • Kelvin and non-Kelvin banana–triax adapters available

Applications

• Precision analog / sensor bias with ultra-low noise • 4-quadrant sourcing and measurement • Arbitrary waveform / pulsed voltage generation (with filters limiting some modes)

B2962A Characteristics / Specifications

PARAMETER	VALUE
Model	B2962A
Manufacturer	Keysight / Agilent
Instrument Type	6.5-Digit Low Noise Power Source
Alias	B2962A; Keysight B2962A
Channels	2
Digits	6.5
Max V	210 V
Max I	3 A
Max power	32 W
Noise with ULNF	10 μ Vrms
Min resolution	100 nV / 10 fA Notes Specs from Keysight B2961A/B2962A data sheet. Confirm installed noise filters on the unit.
Resolution	6.5 digit
Max voltage/current/power class	210 V / 3 A / 32 W (model headline)
Noise 0.1–10 Hz	~5 μ Vpp
Noise 10 Hz–20 MHz (no filter)	3 mVrms class
With ULNF/HC-ULNF	10 μ Vrms; 1 nVrms/ $\sqrt{\text{Hz}}$ @ 10 kHz
Filter options	N1294A-020 HC-ULNF 21 V/500 mA; -021 ULNF 42 V/105 mA; -022 LNF 210 V/3 A
Outputs	DC; pulsed / sweep / arb (voltage; filter-dependent)

B2962A Specifications

PARAMETER	VALUE
Applications	- Precision analog / sensor bias with ultra-low noise
Key Features	- Channels: 2
Technical Specifications	Model: B2962A
Notes	Specs from Keysight B2961A/B2962A data sheet. Confirm installed noise filters on the unit.

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	B2962A
Manufacturer	Keysight / Agilent
Instrument Type	6.5-Digit Low Noise Power Source
Alias	B2962A; Keysight B2962A

Specifications

PARAMETER	VALUE
Channels	2
Digits	6.5
Max V	210 V
Max I	3 A
Max power	32 W
Noise with ULNF	10 μV_{rms}
Min resolution	100 nV / 10 fA

Notes
Specs from Keysight B2961A/B2962A data sheet. Confirm installed noise filters on the unit.

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