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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6824A DC Power Supply

Agilent 6824A Bipolar Power Supply Amplifier plus or minus 50 V 1 A The HP 6824A is a bipolar power supply/amplifier rated minus 50 V to plus 50 V at 0 to 1.0 A. OEM 6824A Operating and Service Manual (06824-90001) and product use descriptions list power-supply and amplifier modes, front-panel plus or minus 60 V / plus or minus 1.2 A metering, and high-resolution voltage gain control. Lab bipolar stimulus, four-quadrant component testing, and wideband amplification of programming signals. Meter selectable DC amps, DC volts, or AC volts The HP 6824A is a bipolar power supply/amplifier rated minus 50 V to plus 50 V at 0 to 1.0 A. OEM 6824A Operating and Service Manual (06824-90001) and product use descriptions list power-supply and amplifier modes, front-panel plus or minus 60 V / plus or minus 1.2 A metering, and high-resolution voltage gain control. Lab bipolar stimulus, four-quadrant component testing, and wideband amplification of programming signals. Meter selectable DC amps, DC volts, or AC volts Instrument Type: Bipolar power supply amplifier



MODEL

**Agilent / Keysight
6824A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6824A

LISTING

<https://aumictechlabs.com/products/6824a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6824A is a dual-function DC power supply and power amplifier engineered for precision testing, product development, and R&D applications requiring stable, programmable output. The instrument operates as a bipolar ± 50 V source with sink/source capability and functions as a variable-gain amplifier with 100 V peak-peak output, all integrated into a compact

7.7 kg package. Technical Specifications DC Power Supply Mode Output voltage: -50 Vdc to $+50\text{ Vdc}$ Output current: 0 to 1.0 A Constant voltage/constant current limiting with fast CV/CC crossover Bipolar output with source and sink capability Remote sensing supports up to 10 V drop per load lead Power Amplifier Mode Output voltage: 100 V peak-peak Output current: 0 to 1.0 A Voltage gain: Variable, 0 to 10 (0 to 20 dB) Frequency response: DC to 20 kHz ($\pm 3\text{ dB}$) at full output; DC to 10 kHz at 20 dB gain Signal-to-noise ratio: Approximately 80 dB at full output Total harmonic distortion: Less than 0.02% at 1 kHz, maximum rated output Output configuration: Inverted Programming and Control Remote programming via rear terminals (resistance or voltage source) Programming speed: Less than 50 μsec for -50 V to $+50\text{ V}$ span; approximately 15 μsec for 10–90% voltage transition Transient recovery: Less than 100 μsec to within 5 mV + 0.02% following full load current change Auto-series/auto-parallel operation supported Front panel manual voltage and current controls Electrical Characteristics Input voltage: 104–127 Vac, 48–63 Hz (Option 028: 230 V $\pm 10\%$) Input power: 550 W max., 720 VA max. Input impedance: Approximately 2 k Ω Key Features Bipolar output with rapid CV/CC transition protects sensitive devices Programmable voltage and current with microsecond-level settling Dual-mode operation eliminates need for separate amplifier and supply GPIB interface (SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0) Typical Applications Electronics testing, prototype characterization, quality assurance testing, power amplification of low-level signals, variable load simulation. Compatibility & Integration GPIB remote control interface; rear-panel remote programming terminals; front-panel manual adjustment.

6824A Characteristics / Specifications

PARAMETER	VALUE
Model	6824A
Instrument Type	Bipolar power supply amplifier
Voltage Range	minus 50 V to plus 50 V
Current Rating	0 to 1.0 A
Modes	power supply and amplifier
Meter Voltage Scale	minus 60 V to plus 60 V
Meter Current Scale	minus 1.2 A to plus 1.2 A DC
Meter Functions	DC amps, DC volts, or AC volts
Fine Voltage Control	inner dial trims about 1 percent
Related 6826A Voltage Low	minus 5 V to plus 5 V on 6826A product data at the same 1 A current
Related 6826A Voltage High	minus 50 V to plus 50 V on 6826A product data
Related 6826A Current	0 to 1 A on both 6826A ranges
Related 6826A Cv Ripple Rms	6 mV on 6826A product data
Related 6826A Cv Ripple Pp	35 mV on 6826A product data
Related 6826A Cc Ripple Rms	0.8 mA on 6826A product data
Related 6826A Transient	100 us for 50 mV on 6826A product data
Related 6826A Freq Fixed Gain	DC to 40 kHz plus 1 minus 3 dB on 6826A
Related 6826A Size	198 mmWx 155 mmHx 316 mmDon 6826A
Related 6826A Weight	8.2 kg on 6826A
Related 6825A	plus or minus 20 V plus or minus 2 A class
Related 6827A	plus or minus 100 V plus or minus 0.5 A class
Manual	HP 6824A Power Supply / Amplifier Operating and Service Manual 06824-90001

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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PARAMETER	VALUE
Model	6824A
Instrument Type	Bipolar power supply amplifier
Voltage Range	minus 50 V to plus 50 V
Current Rating	0 to 1.0 A
Modes	power supply and amplifier
Meter Voltage Scale	minus 60 V to plus 60 V
Meter Current Scale	minus 1.2 A to plus 1.2 A DC
Meter Functions	DC amps, DC volts, or AC volts
Fine Voltage Control	inner dial trims about 1 percent
Related 6826A Voltage Low	minus 5 V to plus 5 V on 6826A product data at the same 1 A current
Related 6826A Voltage High	minus 50 V to plus 50 V on 6826A product data
Related 6826A Current	0 to 1 A on both 6826A ranges
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Related 6826A Cv Ripple Pp	35 mV on 6826A product data
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Related 6826A Weight	8.2 kg on 6826A
Related 6825A	plus or minus 20 V plus or minus 2 A class
Related 6827A	plus or minus 100 V plus or minus 0.5 A class
Manual	HP 6824A Power Supply / Amplifier Operating and Service Manual 06824-90001
Notes	
6824A plus or minus 50 V / 0 to 1.0 A rating and meter scales from HP 6824A operating literature. Ripple, transient, bandwidth, size, and weight rows are HP/Agilent 6826A product-data figures at the same plus or minus 50 V / 1 A class; confirm any 6824A-only differences in 06824-90001 Table 1-1.	

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.