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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N5749A System DC Power Supply, 100 V, 7.5 A, 750 W

Keysight (Agilent) N5749A System DC Power Supply, 100 V, 7.5 A, 750 W The Keysight N5749A is an N5700 Series system DC power supply rated 100 V / 7.5 A / 750 W incompact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 100 V rail testing; ATE rack integration in 1U. The Keysight N5749A is an N5700 Series system DC power supply rated 100 V / 7.5 A / 750 W incompact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 100 V rail testing; ATE rack integration in 1U.



MODEL

**Keysight / Agilent
N5749A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5749A

LISTING

<https://aumictechlabs.com/products/n5749a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5749A is a single-output, 750 W DC power supply engineered for automated test systems, product development, and manufacturing environments. It delivers stable power across 0–100 V output voltage and 0–7.5 A output current, with line and load regulation both held to $\leq 0.1\%$ of setting. Output ripple and noise measures ≤ 1 mVrms (20 Hz to 20 MHz), ensuring clean power delivery to sensitive loads. Programming and readback accuracy specifications support precision voltage and current control, while fast transient response (< 500 μ s for 10% load changes) accommodates dynamic load conditions. Technical Specifications Power Output: 750 W

Output Voltage Range: 0–100 V Output Current Range: 0–7.5 A Line Regulation: $\leq 0.1\%$ of setting ($\pm 10\%$ line change) Load Regulation: $\leq 0.1\%$ of setting (0–100% load change) Ripple and Noise: 1 mVrms / 10 mVp-p (20 Hz–20 MHz) Programming Accuracy: Voltage $\pm(0.1\%$ of setting + 0.05% of range); Current $\pm(0.1\%$ of setting + 0.1% of range) Readback Accuracy: Voltage $\pm(0.05\%$ of reading + 0.01% of range); Current $\pm(0.05\%$ of reading + 0.05% of range) Transient Response Time: 85% at full load Operating Temperature: 0–50°C Input Requirement: 187–264 VAC, 47–63 Hz, <1000 VA maxKey Features Adjustable over-voltage protection (OVP) and over-current protection (OCP) Internal over-temperature protection (OTP) Remote voltage sensing for accurate load delivery Forced air cooling with internal fan Compact form factor: 88.1 × 442.3 × 440.1 mm (benchtop) or 88.1 × 442.3 × 493.8 mm (rack-mount) Weight: 10.5 kgCompatibility & Integration LXI-compliant LAN (Ethernet) standard interface Optional GPIB (IEEE 488.2) and USB 2.0 interfaces SCPI command set support for instrument control

Features & description

From manufacturer datasheet

Features

• 100 V / 7.5 A / 750 W • 1U; universal AC 85–265 Vac • Interfaces: GPIB, LAN, USB, LXI Class C • CV ripple: 80 mV p-p / 8 mV rms • OVP/OCP

N5749A Characteristics / Specifications

PARAMETER	VALUE
Model	N5749A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (750 W)
Alias	N5749A DC Output Ratings
Voltage	0 to 100 V; Current: 0 to 7.5 A; Power: 750 W Output Ripple and Noise
Time	≤ 1 ms AC Input 85–265 Vac; 47–63 Hz; PF 0.99 at rated power Operational Notes Prefer Keysight N5700 Series datasheet 5989-1330.
Interfaces	GPIB, LAN, USB, LXI Class C
CV ripple	80 mV p-p / 8 mV rms

N5749A Specifications

PARAMETER	VALUE
Applications	System DC bias; 100 V rail testing; ATE rack integration in 1U.
Key Features	- 100 V / 7.5 A / 750 W
Technical Specifications	Model: N5749A
DC Output Ratings	Voltage: 0 to 100 V; Current: 0 to 7.5 A; Power: 750 W
Output Ripple and Noise	CV p-p: 80 mV; CV rms: 8 mV
Load Effect	Voltage: 12 mV; Current: 6.5 mA
Programming Accuracy	Voltage: 0.05% + 50 mV; Current: 0.1% + 7.5 mA
Measurement Accuracy	Voltage: 0.1% + 100 mV; Current: 0.1% + 22.5 mA
Load Transient Recovery	Time: ≤ 1 ms
AC Input	85–265 Vac; 47–63 Hz; PF 0.99 at rated power
Operational Notes	Prefer Keysight N5700 Series datasheet 5989-1330.

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	N5749A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (750 W)
Alias	N5749A
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Voltage: 0 to 100 V; Current: 0 to 7.5 A; Power: 750 W	
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Voltage: 0.1% + 100 mV; Current: 0.1% + 22.5 mA	
Load Transient Recovery	
Time: ≤ 1 ms	
AC Input	
85–265 Vac; 47–63 Hz; PF 0.99 at rated power	
Operational Notes	
Prefer Keysight N5700 Series datasheet 5989-1330.	

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.