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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N5766A DC Power Supply, 40 V, 38 A, 1520 W, Programmable

Keysight (Agilent) N5766A DC Power Supply, 40 V, 38 A, 1520 W, Programmable The Keysight N5766A is an N5700 Series system DC power supply rated 40 V / 38 A / 1520 W in compact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 40 V high-current testing; ATE rack integration in 1U. The Keysight N5766A is an N5700 Series system DC power supply rated 40 V / 38 A / 1520 W in compact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 40 V high-current testing; ATE rack integration in 1U.



MODEL

**Keysight / Agilent
N5766A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5766A

LISTING

<https://aumictechlabs.com/products/n5766a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5766A is a programmable DC power supply engineered for automated test environments, laboratory research, and production validation. It delivers 40 V at 38 A with 1520 W total output power, featuring precise voltage and current regulation suitable for device characterization and system integration. Technical Specifications Output voltage: 0 to 40 V Output current: 0 to 38 A Output power: 1520 W Line regulation (CV/CC): < 0.02% of rated voltage/current Load regulation (CV/CC): < 0.05% of rated voltage/current Ripple and noise (20 Hz to 20 MHz): < 1 mV RMS, < 5 mV peak-to-peak Transient response: < 1 ms for 10% to 90%

load change Overvoltage protection: User-selectable limit Overcurrent protection: User-selectable limit Over-temperature protection: Standard

Key Features Single output channel Remote programming capability via LAN (LXI compliant), USB, and GPIB SCPI command protocol support Analog programming option Variable-speed forced air cooling 2U rackmount form factor User-configurable protection limits

Typical Applications Automated test equipment (ATE) integration Device characterization and validation Research and development testing High-volume manufacturing test Custom system builds requiring flexible power control

Compatibility & Integration The N5766A integrates into complex test systems through standard industrial interfaces: LAN with LXI compliance, USB, and optional GPIB connectivity. SCPI programming enables direct command control from test software. Optional analog programming accommodates legacy system requirements. Rack mounting in standard 2U height supports dense ATE configurations.

Features & description

From manufacturer datasheet

Features

• 40 V / 38 A / 1,520 W • 1U; universal AC 85–265 Vac • Interfaces: GPIB, LAN, USB, LXI Class C • CV ripple: 60 mV p-p / 8 mV rms • OVP/OCP

N5766A Characteristics / Specifications

PARAMETER	VALUE
Model	N5766A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (1500 W class)
Alias	N5766A DC Output Ratings
Voltage	0 to 40 V; Current: 0 to 38 A; Power: 1,520 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	60 mV p-p / 8 mV rms

N5766A Specifications

PARAMETER	VALUE
Applications	System DC bias; 40 V high-current testing; ATE rack integration in 1U.
Key Features	- 40 V / 38 A / 1,520 W
Technical Specifications	Model: N5766A
DC Output Ratings	Voltage: 0 to 40 V; Current: 0 to 38 A; Power: 1,520 W
Output Ripple and Noise	CV p-p: 60 mV; CV rms: 8 mV
Load Effect	Voltage: 6 mV; Current: 12.6 mA
Programming Accuracy	Voltage: 0.05% + 20 mV; Current: 0.1% + 38 mA
Measurement Accuracy	Voltage: 0.1% + 40 mV; Current: 0.1% + 114 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

Specifications

PARAMETER	VALUE
Model	N5766A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (1500 W class)
Alias	N5766A

DC Output Ratings

Voltage: 0 to 40 V; Current: 0 to 38 A; Power: 1,520 W

Output Ripple and Noise

CV p-p: 60 mV; CV rms: 8 mV

Load Effect

Voltage: 6 mV; Current: 12.6 mA

Programming Accuracy

Voltage: 0.05% + 20 mV; Current: 0.1% + 38 mA

Measurement Accuracy

Voltage: 0.1% + 40 mV; Current: 0.1% + 114 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.