

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N5744A DC Power Supply, 20 V, 38 A, 760 W, Programmable

Keysight (Agilent) N5744A DC Power Supply, 20 V, 38 A, 760 W, Programmable The Keysight N5744A is an N5700 Series system DC power supply rated 20 V / 38 A / 760 W in compact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 20 V high-current testing; ATE rack integration in 1U. The Keysight N5744A is an N5700 Series system DC power supply rated 20 V / 38 A / 760 W in compact 1U package. Universal AC input; GPIB/LAN/USB/LXI; built-in V/I measurement. System DC bias; 20 V high-current testing; ATE rack integration in 1U.



MODEL

**Keysight / Agilent
N5744A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5744A

LISTING

<https://aumictechlabs.com/products/n5744a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N5744A is a 760 W programmable DC power supply engineered for automated test equipment and demanding industrial applications. This compact 1U high, 19-inch wide instrument delivers 20 V at 38 A with output noise as low as 8 mVrms. Front panel operation is straightforward with separate voltage and current knobs, while multiple I/O interfaces and remote control capabilities enable flexible system integration. Technical Specifications Output: 20 V, 38 A, 760 W Output noise: 8 mVrms Universal AC input: 85 to 265 VAC Physical form factor: 1U high, 19-inch wide, rack-mountable Airflow: Front-to-back configuration Key Features Overcurrent,

overvoltage, and under-voltage protection Overtemperature protection Built-in voltage and current measurement Parallel operation: Up to 4 units can be connected in parallel for increased current output Series operation capable for greater output voltage Front-to-back airflow permits direct stacking without additional spacing Analog/resistance control of output voltage and current Dedicated front panel with intuitive controls Interfaces & Control USB, LAN (LXI-Core), and GPIB connectivity Built-in web server for remote browser-based access and control SCPI command support for remote instrument operation Compatible with PathWave BenchVue Power Supply Software for control and data visualization Typical Applications Automated test systems requiring stable, low-noise DC power Laboratory and production test benches Industrial equipment requiring parallel-connected supplies for higher current demands ATE systems requiring remote operation and integration with test frameworks Compatibility & Integration Multiple standard I/O interfaces USB, LAN (LXI-Core), GPIB, and analog control - accelerate test-system development and reduce integration time. Built-in web server enables remote monitoring and adjustment from any networked location. SCPI command compatibility ensures straightforward integration into existing test automation environments and software ecosystems. Included Accessories US power cord DB25 subminiature connector Shield assembly Load lead connection hardware for output bus bars Certificate of calibration

Features & description

From manufacturer datasheet

Features

• 20 V / 38 A / 760 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

N5744A Characteristics / Specifications

PARAMETER	VALUE
Model	N5744A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (750 W class)
Alias	N5744A DC Output Ratings
Voltage	0 to 20 V; Current: 0 to 38 A; Power: 760 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

N5744A Specifications

PARAMETER	VALUE
Applications	System DC bias; 20 V high-current testing; ATE rack integration in 1U.
Key Features	- 20 V / 38 A / 760 W
Technical Specifications	Model: N5744A
DC Output Ratings	Voltage: 0 to 20 V; Current: 0 to 38 A; Power: 760 W
Output Ripple and Noise	CV p-p: 60 mV; CV rms: 8 mV
Load Effect	Voltage: 4 mV; Current: 12.6 mA
Programming Accuracy	Voltage: 0.05% + 10 mV; Current: 0.1% + 38 mA
Measurement Accuracy	Voltage: 0.1% + 20 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	N5744A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N5700 Series (750 W class)
Alias	N5744A

DC Output Ratings

Voltage: 0 to 20 V; Current: 0 to 38 A; Power: 760 W

Output Ripple and Noise

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

Load Effect

Voltage: 4 mV; Current: 12.6 mA

Programming Accuracy

Voltage: 0.05% + 10 mV; Current: 0.1% + 38 mA

Measurement Accuracy

Voltage: 0.1% + 20 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

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
NAICS 423690 · 811210 · 541380
Generated August 5, 2026

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