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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N5743A Rack Mount Power Supplies

The Agilent/Keysight N5743A is an N5700 Series 1U system DC power supply. OEM datasheet ratings are 12.5 V, 60 A, and 750 W with built-in metering and standard LAN/USB/GPIB. Rack ATE DC power, manufacturing burn-in, and design validation where 750 W or 1500 W class density matters. Universal AC input 85 to 265 Vac with PFC LAN USB and GPIB interfaces standard LXI ClassCOvoltage overcurrent overtemperature protection with UVL Agilent Keysight N5743A System DC Power Supply 12.5 V 60 A 750 W The Agilent/Keysight N5743A is an N5700 Series 1U system DC power supply. OEM datasheet ratings are 12.5 V, 60 A, and 750 W with built-in metering and standard LAN/USB/GPIB. Rack ATE DC power, manufacturing burn-in, and design validation where 750 W or 1500 W class density matters. Universal AC input 85 to 265 Vac with PFC



MODEL

**Agilent / Keysight
N5743A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5743A

LISTING

<https://aumictechlabs.com/products/n5743a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight N5743A is a single-output DC power supply that provides 750W of clean, reliable power. This power supply offers adjustable voltage and current settings to meet diverse testing requirements. Integrated protection features, including overvoltage and overcurrent protection, safeguard both the power supply and the device under test. Remote sensing ensures

accurate voltage delivery at the load. Ideal for research, development, and manufacturing environments.

N5743A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight N5700
Rated Output Voltage	12.5 V
Rated Output Current	60 A
Rated Output Power	750 W
Output Ripple Noise CV Peak Peak	60 mV up to 20 MHz
Output Ripple Noise CV RMS	8 mV from 5 Hz to 1 MHz
CV Load Regulation	3.25 mV
CC Load Regulation	17 mA
CV Line Regulation	3.25 mV
CC Line Regulation	8 mA
Voltage Programming Accuracy	0.05 percent plus 6.25 mV
Current Programming Accuracy	0.1 percent plus 60 mA
Voltage Measurement Accuracy	0.1 percent plus 12.5 mV
Current Measurement Accuracy	0.1 percent plus 180 mA
Load Transient Recovery Time	1.5 ms or less
Overvoltage Protection Range	1 to 15 V
Overvoltage Protection Accuracy	0.125 V
Up Program Response Full Load	0.08 s
Down Program Response Full Load	0.05 s
Down Program Response No Load	0.7 s
Remote Sense Compensation Per Lead	1 V
CC Ripple Noise RMS	120 mA
Programming Resolution Voltage	1.5 mV
Programming Resolution Current	7.2 mA

PARAMETER	VALUE
Front Panel Display Accuracy Voltage	0.06 V
Front Panel Display Accuracy Current	0.30 A
Command Response Time Typical	55 ms add to output response
Data Readback Transfer Time LAN Typical	3 ms
Package Height	1 U
Dimensions HxWxD	43.6 mm x 422.8 mm x 432.8 mm excluding connectors and handles
Weight	7 kg (15.4 lb)
AC Input	85 to 265 Vac 47 to 63 Hz universal
AC Input Current	10.5 A at 100 Vac nominal; 5 A at 200 Vac nominal
Power Factor	0.99 at nominal input and rated output power
Output Terminal Isolation	no output terminal more than plus or minus 60 Vdc from chassis
Parallel Capability	up to 4 similarly rated units
Series Capability	up to 2 similarly rated units within isolation limits
Remote Interfaces	LAN USB 2.0 GPIB
LXI Compliance	LXI ClassCAnalog Program Monitor: 0 to 5 V or 0 to 10 V and 0 to 5 kOhm or 0 to 10 kOhm
Temperature Spec Window	warranted 0 to 40 C unless otherwise noted

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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CV Load Regulation	3.25 mV
CC Load Regulation	17 mA
CV Line Regulation	3.25 mV
CC Line Regulation	8 mA
Voltage Programming Accuracy	0.05 percent plus 6.25 mV
Current Programming Accuracy	0.1 percent plus 60 mA
Voltage Measurement Accuracy	0.1 percent plus 12.5 mV
Current Measurement Accuracy	0.1 percent plus 180 mA
Load Transient Recovery Time	1.5 ms or less
Overvoltage Protection Range	1 to 15 V
Overvoltage Protection Accuracy	0.125 V
Up Program Response Full Load	0.08 s
Down Program Response Full Load	0.05 s
Down Program Response No Load	0.7 s
Remote Sense Compensation Per Lead	1 V
CC Ripple Noise RMS	120 mA
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Notes

Numeric rows from Keysight N5700 Series System DC Power Supplies datasheet 5989-1330EN model column N5743A.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.