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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N5746A DC Power Supply, 0 to 40 Vdc, 0 to 19 A, 760 W

Agilent Keysight N5746A System DC Power Supply The Agilent/Keysight N5746A is an N5700 Series single-output system DC power supply rated 40 V / 19 A / 760 W in a 1U package. OEM N5700 Series datasheets list built-in V/I measurement, GPIB/LAN/USB (LXI Class C), universal 85 to 265 Vac input, and paralleling/series connection flexibility. ATE racks, design validation, and manufacturing DC bias needing compact 1U programmable power with LXI connectivity. CV Ripple Noise Peak To Peak: 60 mV (up to 20 MHz) The Agilent/Keysight N5746A is an N5700 Series single-output system DC power supply rated 40 V / 19 A / 760 W in a 1U package. OEM N5700 Series datasheets list built-in V/I measurement, GPIB/LAN/USB (LXI Class C), universal 85 to 265 Vac input, and paralleling/series connection flexibility. ATE racks, design validation, and manufacturing DC bias needing compact 1U programmable power with LXI connectivity. CV Ripple Noise Peak To Peak: 60 mV (up to 20 MHz) CV Ripple Noise RMS: 8 mV (5 Hz to 1 MHz)



MODEL

**Agilent / Keysight
N5746A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5746A

LISTING

<https://aumictechlabs.com/products/n5746a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5746A is a single-output, programmable DC power supply designed . This power supply provides stable and precise DC power, with a maximum output of 60V and 25A,

delivering up to 1500W. It features built-in voltage and current programming, as well as overvoltage and overcurrent protection, ensuring the safety of connected devices. The N5746A is suitable for benchtop use or rack mounting in automated test systems.

Features & description

From manufacturer datasheet

Built-in voltage and current measurement

OVP OCP OTP and UVL protection Analog programming and monitoring Technical Specifications
Model: N5746A DC Output Voltage: 40 V DC Output Current: 19 A DC Output Power: 760 W CV Ripple
Noise Peak To Peak: 60 mV (up to 20 MHz) CV Ripple Noise RMS: 8 mV (5 Hz to 1 MHz) Load Effect
Voltage: 6 mV Load Effect Current: 8.8 mA Programming Accuracy Voltage: 0.05 percent + 20 mV
Programming Accuracy Current: 0.1 percent + 19 mA Measurement Accuracy Voltage: 0.1 percent + 40
mV Measurement Accuracy Current: 0.1 percent + 57 mA Overvoltage Protection Range: 2 to 44 V
Programming Resolution Voltage: 4.8 mV Programming Resolution Current: 2.3 mA CC Ripple Noise
RMS: 48 mA Remote Sense Compensation Per Lead: 2 V Load Transient Recovery Time: less than or
equal to 1 ms AC Input: 85 to 265 Vac 47 to 63 Hz universal Remote Interfaces: GPIB Ethernet LAN USB
2.0 LXI Compliance: LXI ClassC Form Factor: 1U 19 inch Command Response Time Class: 55 ms class
Series Family: Keysight N5700 Series Notes From Keysight N5700 Series System DC Power Supplies
data sheet model column for N5746A. Warranted over 0 to 40 C ambient unless noted.

N5746A Characteristics / Specifications

PARAMETER	VALUE
Model	N5746A
DC Output Voltage	40 V
DC Output Current	19 A
DC Output Power	760 W
CV Ripple Noise Peak To Peak	60 mV (up to 20 MHz)
CV Ripple Noise RMS	8 mV (5 Hz to 1 MHz)
Load Effect Voltage	6 mV
Load Effect Current	8.8 mA
Programming Accuracy Voltage	0.05 percent + 20 mV
Programming Accuracy Current	0.1 percent + 19 mA
Measurement Accuracy Voltage	0.1 percent + 40 mV
Measurement Accuracy Current	0.1 percent + 57 mA
Overvoltage Protection Range	2 to 44 V
Programming Resolution Voltage	4.8 mV
Programming Resolution Current	2.3 mA
CC Ripple Noise RMS	48 mA
Remote Sense Compensation Per Lead	2 V
Load Transient Recovery Time	less than or equal to 1 ms
AC Input	85 to 265 Vac 47 to 63 Hz universal
Remote Interfaces	GPIB Ethernet LAN USB 2.0
LXI Compliance	LXI ClassCForm Factor: 1U 19 inch
Command Response Time Class	55 ms class
Series Family	Keysight N5700 Series

N5746A Specifications

PARAMETER	VALUE
Agilent Keysight N5746A System DC Power Supply	Overview
Applications	ATE racks, design validation, and manufacturing DC bias needing compact 1U programmable power with LXI connectivity.
Key Features	1U high density system DC supply
OVP OCP OTP and UVL protection	Analog programming and monitoring
Technical Specifications	Model: N5746A
Notes	From Keysight N5700 Series System DC Power Supplies data sheet model column for N5746A. Warranted over 0 to 40 C ambient unless 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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PARAMETER	VALUE
Model	N5746A
DC Output Voltage	40 V
DC Output Current	19 A
DC Output Power	760 W
CV Ripple Noise Peak To Peak	60 mV (up to 20 MHz)
CV Ripple Noise RMS	8 mV (5 Hz to 1 MHz)
Load Effect Voltage	6 mV
Load Effect Current	8.8 mA
Programming Accuracy Voltage	0.05 percent + 20 mV
Programming Accuracy Current	0.1 percent + 19 mA
Measurement Accuracy Voltage	0.1 percent + 40 mV
Measurement Accuracy Current	0.1 percent + 57 mA
Overvoltage Protection Range	2 to 44 V
Programming Resolution Voltage	4.8 mV
Programming Resolution Current	2.3 mA
CC Ripple Noise RMS	48 mA
Remote Sense Compensation Per Lead	2 V
Load Transient Recovery Time	less than or equal to 1 ms
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Remote Interfaces	GPIO Ethernet LAN USB 2.0
LXI Compliance	LXI ClassCForm Factor: 1U 19 inch
Command Response Time Class	55 ms class
Series Family	Keysight N5700 Series
Notes	
From Keysight N5700 Series System DC Power Supplies data sheet model column for N5746A. Warranted over 0 to 40 C ambient unless noted.	

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
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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.