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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8756A Scalar analyzer

HP Agilent Keysight N8756A System DC Power Supply 40 V 125 A 5000 W The Agilent/Keysight N8756A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 40 V, 125 A, and 5000 W with built-in measurement and LXI ClassCremote I/O. High-power ATE DC sourcing, burn-in racks, and power-device validation in a 2U package. Compact 2U 19 inch system DC supply package The Agilent/Keysight N8756A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 40 V, 125 A, and 5000 W with built-in measurement and LXI ClassCremote I/O. High-power ATE DC sourcing, burn-in racks, and power-device validation in a 2U package. Compact 2U 19 inch system DC supply package LAN USB and GPIB interfaces standard LXI ClassCOvertoltage overcurrent and overtemperature protection with UVL window



MODEL

**Agilent / Keysight
8756A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8756A

LISTING

<https://aumictechlabs.com/products/8756a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8756A is a scalar network analyzer for amplitude response measurements of RF and microwave devices. It delivers accurate insertion loss, gain, and return loss data across 10 MHz to 40 GHz, making it suitable for characterizing filters, amplifiers, cables, and similar components. Technical Specifications Frequency Range: 10 MHz to 40 GHz Dynamic Range: +10 dBm to -50 dBm Display Channels: Two independent channels with separate controls Directivity: 40 dB bridges Display Resolution: 0.006 dB (display), 0.01 dB (cursor) Horizontal Resolution: 401

points Sweep Time: ≥ 150 ms minimum Scale Options: 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 dB per division Reference Offset (Absolute): -70.00 dBm to $+20.00$ dBm Reference Offset (Ratio): -90.00 dB to $+90.00$ dB Averaging: 2, 4, 8, 16, 32, 64, 128, or 256 traces Power Input: 115/230 V $\pm 10\%$, 48–62 Hz, ~ 100 W Dimensions: 178 mm (H) $\times$ 425 mm (W) $\times$ 482 mm (D) Weight: 21 kg net; 26 kg shipping

Key Features Five-key operation with Autoscale function for rapid setup Fully programmable via HP-IB for automated test integration Nine save/recall registers for measurement configurations Direct digital plot output capability Full annotated digital display with dual-channel independence Transfer formats: ASCII strings and 16-bit integers

Typical Applications Insertion loss and gain measurements on RF/microwave components Return loss characterization of filters and impedance networks Cable loss and transmission line analysis Amplifier performance verification across multi-decade frequency spans

Compatibility & Integration The 8756A operates with directional bridges (HP 85020 and 85027 series) for reflection measurements and HP 11664 series detectors for 10 MHz–40 GHz operation. HP-IB control enables integration with sweep oscillators such as the Model 8350B and larger automated test systems.

8756A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight N8700 5 kW class
Rated Output Voltage	40 V
Rated Output Current	125 A
Rated Output Power	5000 W
Output Ripple Noise CV Peak Peak	75 mV at 20 MHz bandwidth
Output Ripple Noise CV RMS	10 mV from 5 Hz to 1 MHz
CV Load Regulation	11 mV
CC Load Regulation	125 mA
CV Line Regulation	4 mV
CC Line Regulation	62.5 mA
Voltage Programming Accuracy	0.025 percent plus 30 mV
Current Programming Accuracy	0.1 percent plus 375 mA
Voltage Measurement Accuracy	0.025 percent plus 50 mV
Current Measurement Accuracy	0.1 percent plus 375 mA
Load Transient Recovery Time	less than 1 ms
Overvoltage Protection Range	2 to 44 V
Up Program Response Full Load	30 ms
Down Program Response Full Load	80 ms
Down Program Response No Load	900 ms
Remote Sense Compensation Per Lead	5 V
CC Ripple Noise RMS	300 mA
Programming Resolution Voltage	4.8 mV
Programming Resolution Current	15 mA
Front Panel Display Accuracy Voltage	200 mV

PARAMETER	VALUE
Front Panel Display Accuracy Current	625 mA
Command Response Time Typical	100 ms add to output response
Package Height	2 U
Dimensions HxWxD	88 mm x 423 mm x 442.5 mm excluding connectors and handles
Weight	16 kg (35.2 lb)
Remote Interfaces	LAN USB 2.0 GPIB
LXI Compliance	LXI ClassCCCommand Language: SCPI with IVI COM drivers
Parallel Capability	up to 4 identical units for higher current
Series Capability	2 identical units for higher voltage within isolation limits
Analog Program Monitor	0 to 5 V or 0 to 10 V and resistance programming paths
AC Input Options	208 V 3 phase or 400 V 3 phase; 230 V single phase on 3.3 kW models
Temperature Spec Window	ambient 0 to 40 C unless otherwise noted in OEM tables
Savable States	16 volatile memory locations
Bandwidth	Output Ripple Noise CV RMS: 10 mV from 5 Hz to 1 MHz

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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Notes
Numeric rows from Keysight N8700 Series System DC Power Supplies datasheet 5990-3881EN model column N8756A.

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.