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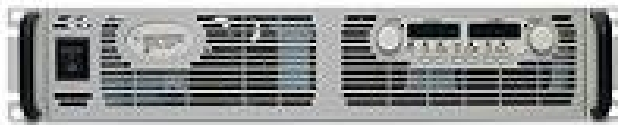
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8755A System DC Power Supply 30V 170A

Agilent Keysight N8755A System DC Power Supply 30 V 170 A 5100 W The Agilent/Keysight N8755A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 30 V, 170 A, and 5100 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 N8755A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 30 V, 170 A, and 5100 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 ClassCOvervoltage overcurrent and overtemperature protection with UVL window



MODEL

**Agilent / Keysight
N8755A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8755A

LISTING

<https://aumictechlabs.com/products/n8755a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8755A is a 5100W, single-output, programmable DC power supply designed for demanding applications in automated testing, research and development, and manufacturing. This unit has stable and reliable power with precise control and monitoring capabilities, ensuring accuracy and repeatability in test results. The N8755A is part of the N8700 Series, which provides

a range of power supplies from 750W to 5000W, offering flexible solutions for various power requirements. Technical Specifications DC Output Ratings: Voltage: 0-30V Current: 0-170A Power: 5100W (5.1kW) Programming Accuracy: Voltage: $\pm 0.025\%$ + 22.5mV Current: $\pm 0.1\%$ + 510mA Output Ripple and Noise: CV p-p: 75mV CV rms: 10mV Programming Resolution: Voltage: 1 mV Current: 1 mA Load Transient Recovery Time: <1 ms AC Input Voltage Options: The N8755A offers flexible AC input options. Specifically, a 208V, three-phase input is available. Other three-phase AC input options include 208V with options N8751A-208 and N8751A-861. The AC input voltage hardware is permanently installed at the factory and cannot be changed after delivery. Input Frequency: 47 Hz to 63 Hz Input Voltage: 170 VAC to 265 VAC (for N8755A-NGP model) Interfaces and Control: Standard Interfaces: LAN, USB, and GPIB are standard. LXI Compliance: Fully compliant with the LXI Class C specification. Analog/Resistance Control: Offers analog/resistance control of output voltage and current. Remote Control: Remote control capabilities via GPIB, LAN, USB, and LXI interfaces. LabVIEW Driver: Certified LabVIEW Plug and Play instrument driver available, supporting USB, Ethernet, IEEE 488.2 (GPIB), and LXI. Configuration and Connectivity: Single Output: Provides a single DC output. Parallel and Series Connection: Multiple units can be connected in parallel or series to achieve higher output current or voltage, respectively. Physical Characteristics: Form Factor: Small, high-density 2U package. Airflow: Front-to-back airflow, requiring no additional space above or below in an ATE rack. Dimensions: 426 mm x 133 mm x 670 mm (W x H x D) Weight: 30.6 kg Features and Protection: Measurement: Built-in voltage and current measurement and display. Operation: Easy front-panel operation with rotary knobs and buttons for adjustments. Status Indicators: LED indicators for power supply status and operating modes. Protection: Extensive device protection, including overvoltage, overcurrent, and overtemperature protection. Power-On State: Configurable power-on states (last setting memory or factory default). Why Choose Aumictech for Agilent/Keysight N8755A? At Aumictech, we specialize in supplying high-end DC power supply equipment. Whether you need precise voltage and current control for critical R&D projects, reliable power for automated manufacturing lines, or solid solutions for enterprise-level lab testing, our team ensures the Agilent/Keysight N8755A delivers maximum performance and stability for your application. We provide expert support to help you integrate this powerful instrument into your existing infrastructure.

N8755A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight N8700 5 kW class
Rated Output Voltage	30 V
Rated Output Current	170 A
Rated Output Power	5100 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	9.5 mV
CC Load Regulation	170 mA
CV Line Regulation	3 mV
CC Line Regulation	85 mA
Voltage Programming Accuracy	0.025 percent plus 22.5 mV
Current Programming Accuracy	0.1 percent plus 510 mA
Voltage Measurement Accuracy	0.025 percent plus 37.5 mV
Current Measurement Accuracy	0.1 percent plus 510 mA
Load Transient Recovery Time	less than 1 ms
Overvoltage Protection Range	2 to 36 V
Up Program Response Full Load	30 ms
Down Program Response Full Load	80 ms
Down Program Response No Load	800 ms
Remote Sense Compensation Per Lead	5 V
CC Ripple Noise RMS	460 mA
Programming Resolution Voltage	3.6 mV
Programming Resolution Current	20.4 mA
Front Panel Display Accuracy Voltage	150 mV

PARAMETER	VALUE
Front Panel Display Accuracy Current	850 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 N8755A.

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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<https://aumictechlabs.com>

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.