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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8739A System DC Power Supply 100V 33A

Agilent Keysight N8739A System DC Power Supply 100 V 33 A 3300 W The Agilent/Keysight N8739A is a 3.3 kW class N8700 Series system DC power supply. OEM datasheet ratings are 100 V, 33 A, and 3300 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 N8739A is a 3.3 kW class N8700 Series system DC power supply. OEM datasheet ratings are 100 V, 33 A, and 3300 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
N8739A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8739A

LISTING

<https://aumictechlabs.com/products/n8739a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N8739A is a, single-output DC power supply designed for demanding test and measurement applications. This unit has a solid power output within a compact 2U form factor, making it suitable for integration into automated test equipment (ATE) racks. It has stable

and accurate power, crucial for the reliable operation of sensitive electronic devices in research, development, and manufacturing environments. The N8739A is characterized by its significant power delivery, flexible input options, and comprehensive control and measurement capabilities.

Technical Specifications

- * **DC Output Ratings:** * Voltage: 100V * Current: 33A * Power: 3300W
- * **Programming Accuracy:** * Voltage: $\pm 0.05\% + 50\text{mV}$ * Current: $\pm 0.1\% + 66\text{mA}$ * Output Ripple and Noise: * CV p-p: 100mV * CV rms: 25mV
- * **Measurement Accuracy (Readback):** * Voltage: Typically within $\pm(250\text{ mV} + 100\text{ mV})$ to $\pm(\text{Vout} - 200\text{ mV})$ * Current: Typically within $\pm(250\text{ mV} + 100\text{ mV})$ to $\pm(\text{Vout} - 200\text{ mV})$
- * **AC Input:** * Voltage Range: 170VAC to 265VAC (for single-phase input options) * Frequency: 50/60 Hz
- * Flexible AC input options are available, with hardware permanently installed at the factory and not changeable after delivery.
- * **Interfaces:** * Standard interfaces include LAN (LXI Class C compliant), USB, and GPIB. * An integrated web server allows for remote access and control via a standard web browser.
- * **Physical Characteristics:** * Dimensions (excluding connectors and handles): 88 mm (Height) x 423 mm (Width) x 442.5 mm (Depth) * Form Factor: 2U (Rack Units) * Weight: 13 kg (28.6 lbs) for 3.3 kW models
- * **Airflow:** Front-to-back airflow simplifies rack mounting without requiring additional space above or below the unit.
- * **Operational Features:** * Front panel controls with separate knobs for voltage and current. * Built-in voltage and current measurement capabilities. * Extensive device protection, including overcurrent, overvoltage, and undervoltage protection. * Analog/resistance control of output voltage and current. * Parallel connection of up to four identical units for increased current. * Series connection of up to two identical units for increased voltage. * Remote sensing to compensate for voltage drop in load leads.
- * **Environmental Considerations:** * Operating Temperature: Maximum ambient temperature of $+40^{\circ}\text{C}$. * Storage: Operates indoors in a controlled environment.
- * **Included Accessories (typical):** * Power Supply Unit * Power Cord * Strain Relief Assembly * AC Input Cover * DB25 Subminiature Connector * Shield Assembly * Hardware for Bus Bar Connection (for 8V to 100V models) * Certificate of Calibration

Why Choose Aumictech for Agilent/Keysight N8739A? At Aumictech, we specialize in supplying DC power supplies. Whether you need reliable power for demanding test applications, precise voltage and current control for sensitive device testing, or flexible integration into automated systems, our team ensures the Agilent/Keysight N8739A delivers maximum performance for your application.

N8739A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight N8700 3.3 kW class
Rated Output Voltage	100 V
Rated Output Current	33 A
Rated Output Power	3300 W
Output Ripple Noise CV Peak Peak	100 mV at 20 MHz bandwidth
Output Ripple Noise CV RMS	25 mV from 5 Hz to 1 MHz
CV Load Regulation	20 mV
CC Load Regulation	11.6 mA
CV Line Regulation	12 mV
CC Line Regulation	5.3 mA
Voltage Programming Accuracy	0.05 percent plus 50 mV
Current Programming Accuracy	0.1 percent plus 66 mA
Voltage Measurement Accuracy	0.1 percent plus 100 mV
Current Measurement Accuracy	0.1 percent plus 99 mA
Load Transient Recovery Time	less than 1 ms
Overvoltage Protection Range	5 to 110 V
Up Program Response Full Load	150 ms
Down Program Response Full Load	300 ms
Down Program Response No Load	1500 ms
Remote Sense Compensation Per Lead	5 V
CC Ripple Noise RMS	70 mA
Programming Resolution Voltage	12 mV
Programming Resolution Current	4 mA
Front Panel Display Accuracy Voltage	500 mV

PARAMETER	VALUE
Front Panel Display Accuracy Current	165 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	13 kg (28.6 lb)
Remote Interfaces	LAN USB 2.0 GPIB
LXI Compliance	LXI ClassCCommand 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: 25 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 N8739A.

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.