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**Data Sheet**

August 13, 2026

AGILENT / HP / KEYSIGHT

## Agilent HP Keysight N8920A DC Power supply

Keysight N8920A Autoranging DC Power Supply 80 V 170 A 5 kW The Keysight N8920A is a single-output autoranging DC power supply in the N8900 series providing up to 80 V, 170 A, or 5 kW (not simultaneously at extremes). It offers built-in voltage/current measurement, OVP/OCP/OTP protection, and LAN/USB/GPIB/analog control in a 3U high-density package expandable in master/slave systems. The Keysight N8920A is a single-output autoranging DC power supply in the N8900 series providing up to 80 V, 170 A, or 5 kW (not simultaneously at extremes). It offers built-in voltage/current measurement, OVP/OCP/OTP protection, and LAN/USB/GPIB/analog control in a 3U high-density package expandable in master/slave systems.

**MODEL****Agilent / HP /  
Keysight N8920A****CALIBRATION****Available on  
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N8920A****LISTING**<https://aumictechlabs.com/products/n8920a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Keysight N8920A is a 5 kW autoranging DC power supply engineered for demanding automated test equipment (ATE) applications in automotive and industrial environments. This single-output system delivers flexible voltage and current combinations at full 5000 W power rating, functioning as multiple power supplies in one unit. The N8920A reaches 80 V and 170 A maximum ratings, with autoranging output that maintains 5 kW across the entire operating envelope - for example, 80 V at 62.5 A or any proportional combination. Programming accuracy of

0.1% for voltage and 0.2% for current, combined with measurement accuracy of 0.1% and 0.2% respectively, ensures precision in dynamic load testing and complex power condition simulation. Output voltage ripple and noise measures 100 mV peak-to-peak, with load effect of 40 mV from 0% to 100% full load. The unit accepts 187–240 VAC single-phase input (nominal 208 VAC) and occupies 3U of rack space (483 × 133 × 660 mm). Built-in over-voltage, over-current, and over-temperature protection safeguards connected equipment. Standard interfaces include LAN (LXI Core), USB, GPIB, and analog connectivity for integration into existing test systems. Integrated voltage and current measurement capability eliminates external instrumentation. Multiple N8920A units can be paralleled using built-in master/slave control to reach output power levels up to 100 kW while operating as a single programmable supply.

## Features & description

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From manufacturer datasheet

### Features

• Autoranging 80 V / 170 A / 5000 W envelope • Maximum 62.5 A at 80 V; 29.4 V at 170 A • Built-in voltage and current measurement • OVP OCP and over-temperature protection • LAN LXI Core USB GPIB and analog interfaces standard • 3U rack height high power density • Expandable master/slave to 100 kW total class

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### Applications

• High-power DC stimulus for ATE and burn-in • Automotive and industrial power electronics testing • Autoranging supply where voltage/current needs vary • Parallel master/slave systems up to 100 kW class

# N8920A Characteristics / Specifications

| PARAMETER                  | VALUE                                 |
|----------------------------|---------------------------------------|
| Model                      | N8920A                                |
| Manufacturer               | Keysight                              |
| Instrument Type            | Autoranging DC Power Supply           |
| Alias                      | N8920A; Keysight N8900 5 kW           |
| Maximum voltage            | 80 V                                  |
| Maximum current            | 170 A                                 |
| Maximum power              | 5000 W                                |
| Current at maximum voltage | 62.5 A                                |
| Voltage at maximum current | 29.4 V                                |
| Output type                | single output autoranging             |
| Input voltage              | 187 to 240 V 1PH class                |
| Rack height                | 3U (5.25 in / 13.34 cm)               |
| Interfaces                 | LAN LXI Core, USB, GPIB, analog       |
| Measurement                | built-in voltage and current          |
| Protection                 | OVP OCP OTP                           |
| Expandable power           | up to 100 kW total output power class |
| Master slave               | yes                                   |
| Series                     | N8900                                 |
| Related 200 V 5 kW         | N8921A                                |
| Related 500 V 5 kW         | N8923A                                |
| Related 750 V 5 kW         | N8924A                                |
| Warranty class             | three year                            |
| Programming                | SCPI over LAN USB GPIB                |
| Form factor                | 3U rackmount supply                   |
| Autoranging                | yes                                   |

| PARAMETER         | VALUE                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of outputs | 1 Notes Specs from Keysight N8900 series / N8920A product listings.<br>Confirm AC input configuration and paralleling cables if used in master/slave. |

# 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                      | N8920A                                |
| Manufacturer               | Keysight                              |
| Instrument Type            | Autoranging DC Power Supply           |
| Alias                      | N8920A; Keysight N8900 5 kW           |
| Maximum voltage            | 80 V                                  |
| Maximum current            | 170 A                                 |
| Maximum power              | 5000 W                                |
| Current at maximum voltage | 62.5 A                                |
| Voltage at maximum current | 29.4 V                                |
| Output type                | single output autoranging             |
| Input voltage              | 187 to 240 V 1PH class                |
| Rack height                | 3U (5.25 in / 13.34 cm)               |
| Interfaces                 | LAN LXI Core, USB, GPIB, analog       |
| Measurement                | built-in voltage and current          |
| Protection                 | OVP OCP OTP                           |
| Expandable power           | up to 100 kW total output power class |
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| Related 200 V 5 kW         | N8921A                                |
| Related 500 V 5 kW         | N8923A                                |
| Related 750 V 5 kW         | N8924A                                |
| Warranty class: three year |                                       |
| Specifications             |                                       |
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| PARAMETER         | VALUE               |
|-------------------|---------------------|
| Form factor       | 3U rackmount supply |
| Autorangeing      | yes                 |
| Number of outputs | 1                   |

Notes  
Specs from Keysight N8900 series / N8920A product listings. Confirm AC input configuration and paralleling cables if used in master/slave.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.