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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8940A Autoranging System DC Power Supply, 80 V, 170 A, 5000 W

Keysight (Agilent) N8940A Autoranging System DC Power Supply, 80 V, 170 A, 5000 W The Keysight N8940A is an N8900 Series autoranging system DC power supply (400 VAC input family) rated 80 V / 170 A / 5 kW. Autoranging enables many V/I combinations at full power (e.g., 80 V @ 62.5 A and 29.4 V @ 170 A). Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; compact 3U. High-current ATE on 400 Vac sites; autoranging system DC; parallel multi-unit banks. The Keysight N8940A is an N8900 Series autoranging system DC power supply (400 VAC input family) rated 80 V / 170 A / 5 kW. Autoranging enables many V/I combinations at full power (e.g., 80 V @ 62.5 A and 29.4 V @ 170 A). Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; compact 3U. High-current ATE on 400 Vac sites; autoranging system DC; parallel multi-unit banks.



MODEL

**Keysight / Agilent
N8940A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8940A

LISTING

<https://aumictechlabs.com/products/n8940a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8940A is a 5 kW autoranging DC power supply engineered for demanding ATE applications requiring flexible voltage and current combinations at full power output. Operating from 0 to 80 V and 0 to 170 A, this unit delivers 5000 W across a spectrum of load conditions that

would require multiple fixed-output supplies in traditional rectangular architectures. The autoranging topology enables significantly higher current availability across more voltage points than conventional power supplies, making it ideal for test scenarios demanding dynamic load switching without power derating. Designed for 400 VAC input operation, the N8940A occupies just 3U of rack space while achieving high power density. Output voltage ripple and noise measure 16 mVrms. Comprehensive protection includes over-voltage, over-current, and over-temperature safeguards. For applications exceeding single-unit capacity, multiple N8940A supplies parallel via built-in parallel link, enabling unified control and over 100 kW total system output without individual unit programming.

Technical Specifications
Output: 0–80 V, 0–170 A, 5000 W
Input: 400 VAC
Output Ripple/Noise: 16 mVrms
Rack Space: 3U
Protection: Over-voltage, over-current, over-temperature

Key Features
Autoranging capability provides full power across multiple voltage/current combinations
Built-in parallel link for multi-unit expansion to >100 kW output
Compact 3U form factor with high power density
LXI Core LAN, USB 2.0, GPIB, and analog interfaces
Integrated web server for browser-based remote control

Typical Applications
Automatic test equipment requiring variable load profiles
High-current device testing and characterization
Systems requiring dynamic switching between voltage and current operating points

Compatibility & Integration
Multiple units integrate via built-in parallel link for seamless expansion. Remote access and control available through LAN (LXI Core), USB 2.0, GPIB, and analog control interfaces, with built-in web server support.

Features & description

From manufacturer datasheet

Features

- 80 V / 170 A / 5,000 W • Autoranging: 62.5 A @ 80 V; 29.4 V @ 170 A • AC input: 400 VAC nominal (N8940A) • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8940A Characteristics / Specifications

PARAMETER	VALUE
Model	N8940A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (5 kW, 400 VAC)
Alias	N8940A DC Output
Voltage	0–80 V; Current: 0–170 A; Power: 5,000 W
Load transient recovery	≤ 1.5 ms (family) AC Input 400 VAC nominal ±10%; 45–65 Hz; (5 kW class input current per datasheet) PF > 0.99 Operational Notes N8920A is the 208 Vac twin (same 80 V/170 A/5 kW). Prefer N8900 Series datasheet.
Autoranging	62.5 A @ 80 V; 29.4 V @ 170 A
AC input	400 VAC nominal (N8940A)
Interfaces	LAN (LXI), USB, GPIB, analog

N8940A Specifications

PARAMETER	VALUE
Applications	High-current ATE on 400 Vac sites; autoranging system DC; parallel multi-unit banks.
Key Features	- 80 V / 170 A / 5,000 W
Technical Specifications	Model: N8940A
DC Output	Voltage: 0–80 V; Current: 0–170 A; Power: 5,000 W
Performance (80 V / 5 kW column class)	CV ripple/noise, load effect, programming/measurement accuracy: per N8900 datasheet 5991-2818EN N8920A/N8940A column
Operational Notes	N8920A is the 208 Vac twin (same 80 V/170 A/5 kW). Prefer N8900 Series datasheet.

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

Specifications

PARAMETER	VALUE
Model	N8940A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (5 kW, 400 VAC)
Alias	N8940A

DC Output

Voltage: 0-80 V; Current: 0-170 A; Power: 5,000 W

Current @ Max Voltage: 62.5 A; Voltage @ Max Current: 29.4 V

Performance (80 V / 5 kW column class)

CV ripple/noise, load effect, programming/measurement accuracy: per N8900 datasheet 5991-2818EN N8920A/N8940A column

Load transient recovery: ≤ 1.5 ms (family)

AC Input

400 VAC nominal $\pm 10\%$; 45-65 Hz; (5 kW class input current per datasheet)

PF > 0.99

Operational Notes

N8920A is the 208 Vac twin (same 80 V/170 A/5 kW). Prefer N8900 Series datasheet.

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.