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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8946A Autoranging System DC Power Supply, 200 V, 140 A, 10000 W

Keysight (Agilent) N8946A Autoranging System DC Power Supply, 200 V, 140 A, 10000 W The Keysight N8946A is an N8900 Series autoranging system DC power supply (400 VAC) rated 200 V / 140 A / 10 kW. Autoranging supports combinations such as 200 V @ 50 A and 71.4 V @ 140 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-power ATE on 400 Vac; autoranging system DC; parallel multi-unit banks. The Keysight N8946A is an N8900 Series autoranging system DC power supply (400 VAC) rated 200 V / 140 A / 10 kW. Autoranging supports combinations such as 200 V @ 50 A and 71.4 V @ 140 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-power ATE on 400 Vac; autoranging system DC; parallel multi-unit banks.



MODEL

**Keysight / Agilent
N8946A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8946A

LISTING

[https://aumictechlabs.c
om/products/n8946a-
2/](https://aumictechlabs.com/products/n8946a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8946A is a 10 kW autoranging DC power supply engineered for high-power automated test applications. Delivering 0–200 V at 0–140 A with full-power autoranging capability, this single-output unit functions as multiple traditional supplies in one 3U rack-mount chassis. Autoranging technology enables any voltage and current combination within the 10,000 W

envelope - a significant advantage over fixed rectangular output designs. The instrument includes integrated voltage and current measurement, over-voltage, over-current, and over-temperature protection. Multiple N8946A units parallel via built-in parallel links, supporting master/slave configurations and enabling total outputs exceeding 100 kW.

Technical Specifications

Power Output: 10,000 W (single output) Voltage Range: 0 to 200 V DC Current Range: 0 to 140 A DC Autoranging: Yes - full 10 kW available across all voltage/current combinations within rated limits AC Input: 400 VAC nominal; 360–440 VAC operating range Form Factor: 3U rack mount; 5.25 in height (13.34 cm) Power Density: 15 kW capability in 3U space

Key Features

Autoranging output topology maximizes usable power across the voltage–current plane Built-in voltage and current measurement Triple protection: over-voltage, over-current, over-temperature Programmable control via LAN (LXI Core), USB, GPIB, and analog interfaces Web server interface for remote browser-based control Parallel operation with up to 100+ kW total capacity using multiple units Master/slave mode support for coordinated multi-unit systems

Typical Applications

High-power automated test systems, device stress testing, battery charging and characterization, power conversion verification, and industrial equipment validation requiring stable, programmable DC output with precise measurement feedback.

Compatibility & Integration

Standard interfaces include LAN, USB, GPIB, and analog control. Built-in web server enables remote operation. Multiple N8946A units interconnect via integrated parallel links for simplified programming and unified control.

Features & description

From manufacturer datasheet

Features

• 200 V / 140 A / 10,000 W • Autoranging: 50.0 A @ 200 V; 71.4 V @ 140 A • AC: 400 VAC nominal • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8946A Characteristics / Specifications

PARAMETER	VALUE
Model	N8946A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8946A DC Output
Voltage	0–200 V; Current: 0–140 A; Power: 10,000 W
Autoranging	50.0 A @ 200 V; 71.4 V @ 140 A
Interfaces	LAN (LXI), USB, GPIB, analog

N8946A Specifications

PARAMETER	VALUE
Applications	High-power ATE on 400 Vac; autoranging system DC; parallel multi-unit banks.
Key Features	- 200 V / 140 A / 10,000 W
Technical Specifications	Model: N8946A
DC Output	Voltage: 0–200 V; Current: 0–140 A; Power: 10,000 W
Performance	Per N8900 datasheet 5991-2818EN N8926A/N8946A (200 V / 10 kW) column
AC Input	400 VAC nominal $\pm 10\%$; 3-phase; 45–65 Hz; PF > 0.99
Operational Notes	N8926A is the 208 Vac twin. Prefer N8900 datasheet 5991-2818EN.

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	N8946A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8946A

DC Output

Voltage: 0–200 V; Current: 0–140 A; Power: 10,000 W

Current @ Max Voltage: 50.0 A; Voltage @ Max Current: 71.4 V

Performance

Per N8900 datasheet 5991-2818EN N8926A/N8946A (200 V / 10 kW) column

AC Input

400 VAC nominal ±10%; 3-phase; 45–65 Hz; PF > 0.99

Operational Notes

N8926A is the 208 Vac twin. Prefer N8900 datasheet 5991-2818EN.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.