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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8931A Autoranging System DC Power Supply 80V 510A

LAN LXI Core USB GPIB and analog interfaces standard Master slave parallel operation for higher total power Instrument Type: Autoranging system DC power supply AC Input Family: 208 VAC family N8931A / 400 VAC peer N8951A Agilent Keysight N8931A Autoranging System DC Power Supply 80 V 510 A 15 kW The Agilent/Keysight N8931A is an N8900 Series autoranging system DC power supply. OEM datasheet ratings list 80 V, 510 A, and 15 kW with 208 VAC family N8931A / 400 VAC peer N8951A AC input family pairing. High-power ATE, EV and power-electronics stress testing, and rack systems needing autoranging full-power flexibility. Autoranging output characteristic for wideVandlat full power



MODEL

**Agilent / Keysight
N8931A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8931A

LISTING

<https://aumictechlabs.com/products/n8931a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8931A is a 15 kW autoranging, single-output programmable DC power supply designed for automated test equipment (ATE) applications. Its key feature is the autoranging output, which provides a wide range of voltage and current combinations at full power, unlike traditional power supplies with a fixed output characteristic. This flexibility allows a single N8931A unit to perform the function of multiple power supplies, offering significant space and cost savings. The N8931A is part of the N8900 Series, which offers power supplies in 5 kW, 10 kW, and

15 kW configurations. Technical Specifications Electrical Output Ratings: Maximum Output Power: 15000 W Maximum Output Voltage: 80 V Maximum Output Current: 510 A Output Voltage Range: 0 to 80 V Output Current Range: 0 to 510 A Input Power: Input Voltage: 208 VAC (187 – 240 VAC) Input Phase: 3 Phase Autoranging Capability: The autoranging output provides flexibility by offering various voltage and current combinations at full power. This differs from traditional power supplies that deliver full power at only one voltage and current combination. Examples of possible combinations include: * 80 V @ 187.5 A for 15000 W * 29.4 V @ 510 A for 15000 W Expandability: Units can be easily paralleled to create a single power supply with a total output power exceeding 100 kW. The built-in parallel link allows for programming as if it were a single large power supply, eliminating the need to program each unit individually. Up to ten identical units (same model number) can be operated in parallel. Measurement and Monitoring: Built-in voltage and current measurement capabilities. Ability to monitor measured output voltage and current via an analog voltage signal (0-5 V or 0-10 V) corresponding to 0-100% of full-scale. Protection Features: Protection from over-voltage. Protection from over-current. Protection from over-temperature. Interfaces: LAN (LXI Core) USB GPIB Analog interfaces (standard) Physical Characteristics: Form Factor: 3U rack height (5.25 inches / 13.34 cm) Mounting Type: Rack Mount Programmability and Control: Programmable. Supports SCPI (Standard Commands for Programmable Instruments). Provides easy control of power supplies to set parameters and visualize I/V data on a trend chart using PathWave BenchVue Power Supply Software. Software allows tracking and recording of power supply output for specific events. Cloud connectivity for controlling power supplies. Data export to tools such as MATLAB, Microsoft Excel, or Word. Automated test sequences can be created quickly with minimal instrument knowledge. Offers IVI-COM drivers for simplified system development. Output voltage and current can be programmed via an analog voltage signal (0-5 V or 0-10 V). Additional Information: Line cords or terminations are not included. Available in configurations for 208 VAC or 400 VAC input to utilize existing AC wiring. The N8900 Series includes models with various voltage and current combinations, with a total of 28 models available across 5 kW, 10 kW, and 15 kW power levels. Why Choose Aumictech for the Keysight N8931A? At Aumictech, we specialize in supplying high-end DC power equipment. Whether you need flexible output voltage and current combinations, reliable power for automated test systems, or a scalable solution for high-power applications, our team ensures the Keysight N8931A delivers maximum performance for your application.

N8931A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Autoranging system DC power supply
Series Family	Keysight N8900
Rated Output Voltage	80 V
Rated Output Current	510 A
Rated Output Power	15 kW
AC Input Family	208 VAC family N8931A / 400 VAC peer N8951A
Output Voltage Ripple Noise CV Peak Peak	320 mV from 20 Hz to 20 MHz
Output Voltage Ripple Noise CV RMS	25 mV from 20 Hz to 300 kHz
CV Load Effect	40 mV
CC Load Effect	765 mA
Voltage Programming Accuracy	80 mV or less at 23 C plus or minus 5 C
Current Programming Accuracy	1.1 A or less at 23 C plus or minus 5 C
Voltage Measurement Accuracy	80 mV or less at 23 C plus or minus 5 C
Current Measurement Accuracy	1.1 A or less at 23 C plus or minus 5 C
Load Transient Recovery Time	1.5 ms or less to within 1 percent of rated output
Overvoltage Protection Range	0 to 88 V
Remote Sense Compensation Per Lead	2 V
Up Program Response Full Load Typical	30 ms or less
Down Program Response Full Load Typical	80 ms or less
Command Response Time Typical	less than 25 ms
Package Height	3 U
Remote Interfaces	LAN LXI Core USB 2.0 GPIB analog
Parallel Capability	up to 10 identical units master slave
Series Operation	not recommended per OEM

PARAMETER

VALUE

Analog Program Monitor

0 to 5 V or 0 to 10 V corresponding to 0 to 100 percent full scale

Protection Modes

overvoltage overcurrent overtemperature

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
Instrument Type	Autoranging system DC power supply
Series Family	Keysight N8900
Rated Output Voltage	80 V
Rated Output Current	510 A
Rated Output Power	15 kW
AC Input Family	208 VAC family N8931A / 400 VAC peer N8951A
Output Voltage Ripple Noise CV Peak Peak	320 mV from 20 Hz to 20 MHz
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CV Load Effect	40 mV
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Parallel Capability	up to 10 identical units master slave
Series Operation	not recommended per OEM
Analog Program Monitor	0 to 5 V or 0 to 10 V corresponding to 0 to 100 percent full scale
Protection Modes	overvoltage overcurrent overtemperature

Notes

Numeric rows from Keysight N8900 Series Autoranging System DC Power Supplies datasheet model column N8931A.

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.