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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8951A Autoranging System DC Power Supply, 80 V, 510 A, 15000 W

Keysight (Agilent) N8951A Autoranging System DC Power Supply, 80 V, 510 A, 15000 W The Keysight N8951A is an N8900 Series autoranging system DC power supply (400 VAC) rated 80 V / 510 A / 15 kW. Autoranging supports combinations such as 80 V @ 187.5 A and 29.4 V @ 510 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. Very high-current ATE on 400 Vac; autoranging system DC; parallel banks for >100 kW class systems. The Keysight N8951A is an N8900 Series autoranging system DC power supply (400 VAC) rated 80 V / 510 A / 15 kW. Autoranging supports combinations such as 80 V @ 187.5 A and 29.4 V @ 510 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. Very high-current ATE on 400 Vac; autoranging system DC; parallel banks for >100 kW class systems.



MODEL

**Keysight / Agilent
N8951A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8951A

LISTING

<https://aumictechlabs.com/products/n8951a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8951A is a 15 kW autoranging system DC power supply engineered for high-demand automated test equipment (ATE) applications requiring flexible, efficient power delivery. Operating from 400 VAC input (360–440 VAC range), this single-output supply delivers up to 80 V and 510 A with autoranging capability - enabling dynamic voltage and current combinations at full

15000 W output. This eliminates the need for multiple fixed-output supplies in complex test scenarios.

Technical Specifications

DC Output Maximum voltage: 80 V Maximum current: 510 A
Output power: 15000 W Output range: 0–80 V, 0–510 A Voltage programming accuracy: 0.1% of full-scale Current programming accuracy: 0.2% of full-scale Voltage measurement accuracy: 0.1% Current measurement accuracy: 0.2% Output ripple and noise: 320 mV (voltage), 25 mV (noise) AC Input Input voltage: 400 VAC AC range: 360–440 VAC Power factor: > 0.99 Physical Form factor: 3U rack mount Dimensions: 483 × 133 × 610 mm Weight: 30.9 kg

Key Features

Autoranging output provides wide voltage–current combinations maintaining full 15000 W across the operating envelope Built-in measurement for voltage and current monitoring Parallel operation capability: up to 4 units (60 kW total), or six 15 kW units in prewired rack configuration (90 kW total); master–slave control for unified programming Protection circuits include over-voltage (OVP), over-current (OCP), and over-temperature (OTP) safeguards Programmable operation via LAN (LXI Core), USB 2.0, GPIB, and analog interfaces Remote access through integrated web server and standard control protocols

Typical Applications

Automated test systems requiring high dynamic power delivery, parallel redundancy configurations, and multi-range output flexibility. Ideal for battery charging, power component testing, and load simulation in production test environments.

Compatibility & Integration

LXI Core–compliant Ethernet, USB 2.0, GPIB, and analog control enable integration into existing ATE architectures. Web server access supports remote configuration and monitoring. Units operate as independent supplies or paralleled arrays with synchronized master–slave control.

Features & description

From manufacturer datasheet

Features

- 80 V / 510 A / 15,000 W • Autoranging: 187.5 A @ 80 V; 29.4 V @ 510 A • AC: 400 VAC nominal • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8951A Characteristics / Specifications

PARAMETER	VALUE
Model	N8951A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (15 kW, 400 VAC)
Alias	N8951A DC Output
Voltage	0–80 V; Current: 0–510 A; Power: 15,000 W
Autoranging	187.5 A @ 80 V; 29.4 V @ 510 A
Interfaces	LAN (LXI), USB, GPIB, analog

N8951A Specifications

PARAMETER	VALUE
Applications	Very high-current ATE on 400 Vac; autoranging system DC; parallel banks for >100 kW class systems.
Key Features	- 80 V / 510 A / 15,000 W
Technical Specifications	Model: N8951A
DC Output	Voltage: 0–80 V; Current: 0–510 A; Power: 15,000 W
Performance	Per N8900 datasheet N8931A/N8951A (80 V / 15 kW) column
AC Input	400 VAC nominal ±10%; 3-phase; 45–65 Hz; PF > 0.99
Operational Notes	N8931A 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	N8951A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (15 kW, 400 VAC)
Alias	N8951A

DC Output

Voltage: 0-80 V; Current: 0-510 A; Power: 15,000 W

Current @ Max Voltage: 187.5 A; Voltage @ Max Current: 29.4 V

Performance

Per N8900 datasheet N8931A/N8951A (80 V / 15 kW) column

AC Input

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

Operational Notes

N8931A 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

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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.