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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8950A Autoranging System DC Power Supply, 1000 V, 30 A, 10000 W

Keysight (Agilent) N8950A Autoranging System DC Power Supply, 1000 V, 30 A, 10000 W The Keysight N8950A is an N8900 Series autoranging system DC power supply (400 VAC) rated 1000 V / 30 A / 10 kW. Autoranging supports combinations such as 1000 V @ 10 A and 333.3 V @ 30 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-voltage ATE on 400 Vac facilities; autoranging system DC; parallel high-power banks. The Keysight N8950A is an N8900 Series autoranging system DC power supply (400 VAC) rated 1000 V / 30 A / 10 kW. Autoranging supports combinations such as 1000 V @ 10 A and 333.3 V @ 30 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-voltage ATE on 400 Vac facilities; autoranging system DC; parallel high-power banks.



MODEL

**Keysight / Agilent
N8950A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8950A

LISTING

<https://aumictechlabs.com/products/n8950a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8950A is a 10 kW autoranging system DC power supply engineered for automated test equipment (ATE) applications requiring precise, flexible power delivery. This single-output unit delivers 0–1000 V, 0–30 A, and up to 10,000 W within a compact 3U rack form factor. Unlike fixed-output supplies, the N8950A's autoranging architecture dynamically adjusts voltage and

current combinations across its full power envelope, eliminating the need to over-specify equipment for varying load conditions.

Technical Specifications

DC Output Maximum Voltage: 0–1000 V Maximum Current: 0–30 A Maximum Power: 10,000 W (10 kW) Programming Accuracy (Voltage): 0.1% of full-scale Programming Accuracy (Current): 0.2% of full-scale Output Ripple and Noise: 1600 mV p-p, 350 mV rms (voltage); 22 mA rms (current) Load Effect: 500 mV (voltage), 45 mA (current) Command Response Time: <25 ms AC Input Voltage: 400 VAC, 3-phase (360–440 VAC / $\pm 10\%$) Frequency: 45–65 Hz Protection Over-Voltage Protection: 0–1100 V Over-Current Protection: Enabled Over-Temperature Protection: Enabled

Key Features

Built-in voltage and current measurement with 0.1% and 0.2% accuracy respectively Autoranging output for dynamic load adaptation within the 10 kW power envelope Multiple communication interfaces: LAN (LXI Core), USB 2.0, GPIB, and analog Web server for browser-based remote control and monitoring Parallel operation capability: multiple units can be linked via master/slave control for scaled power output up to 40 kW (four-unit configuration) Operating temperature range: 0°C to 45°C Weight: 24.3 kg; Height: 5.25 inches (3U rack space)

Typical Applications

Automated test systems, power conversion efficiency testing, semiconductor device characterization, and multi-rail load simulation where voltage and current requirements vary across test sequences.

Compatibility & Integration

LAN (LXI Core), USB 2.0, and GPIB enable integration into distributed test architectures. Master/slave parallel linking allows configuration of multi-supply systems without external control logic.

Features & description

From manufacturer datasheet

Features

• 1000 V / 30 A / 10,000 W • Autoranging: 10 A @ 1000 V; 333.3 V @ 30 A • AC: 400 VAC nominal • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8950A Characteristics / Specifications

PARAMETER	VALUE
Model	N8950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8950A DC Output
Voltage	0–1000 V; Current: 0–30 A; Power: 10,000 W
Autoranging	10 A @ 1000 V; 333.3 V @ 30 A
Interfaces	LAN (LXI), USB, GPIB, analog

N8950A Specifications

PARAMETER	VALUE
Applications	High-voltage ATE on 400 Vac facilities; autoranging system DC; parallel high-power banks.
Key Features	- 1000 V / 30 A / 10,000 W
Technical Specifications	Model: N8950A
DC Output	Voltage: 0–1000 V; Current: 0–30 A; Power: 10,000 W
Performance	Per N8900 datasheet N8930A/N8950A (1000 V / 10 kW) column for ripple, accuracy, OVP (0–1100 V class)
AC Input	400 VAC nominal $\pm 10\%$; 3-phase; 45–65 Hz; PF > 0.99
Operational Notes	N8930A 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	N8950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8950A

DC Output

Voltage: 0–1000 V; Current: 0–30 A; Power: 10,000 W

Current @ Max Voltage: 10.0 A; Voltage @ Max Current: 333.3 V

Performance

Per N8900 datasheet N8930A/N8950A (1000 V / 10 kW) column for ripple, accuracy, OVP (0–1100 V class)

AC Input

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

Operational Notes

N8930A 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.