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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8943A Autoranging System DC Power Supply, 500 V, 30 A, 5000 W

Keysight (Agilent) N8943A Autoranging System DC Power Supply, 500 V, 30 A, 5000 W The Keysight N8943A is an N8900 Series autoranging system DC power supply (400 VAC) rated 500 V / 30 A / 5 kW. Autoranging supports combinations such as 500 V @ 10 A and 166.7 V @ 30 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-voltage ATE on 400 Vac; autoranging system DC; parallel multi-unit banks. The Keysight N8943A is an N8900 Series autoranging system DC power supply (400 VAC) rated 500 V / 30 A / 5 kW. Autoranging supports combinations such as 500 V @ 10 A and 166.7 V @ 30 A at full power. Built-in V/I measurement; LAN/USB/GPIB/analog; LXI Core; 3U. High-voltage ATE on 400 Vac; autoranging system DC; parallel multi-unit banks.



MODEL

**Keysight / Agilent
N8943A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8943A

LISTING

<https://aumictechlabs.com/products/n8943a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N8943A is a 5000 W single-output programmable DC power supply engineered for automated test equipment and high-power applications requiring precision voltage and current control. Its autoranging topology delivers full power across a wide range of voltage and current combinations, eliminating the need for multiple fixed-output supplies. The unit occupies just 3U of

rack space, achieving exceptional power density while supporting parallel operation up to 100 kW total output.

Technical Specifications

DC Output: 0–500 V, 0–30 A, 5000 W maximum
AC Input: 400 VAC (208 VAC configurations available)
Autoranging Output: Dynamically adjusts voltage and current within nominal power envelope
Programming Accuracy: Voltage $\pm 0.1\%$, Current $\pm 0.2\%$
Built-in Measurements: Voltage and current
Protection: Over-voltage (OVP), over-current (OCP), over-temperature (OTP)
Power Factor: >0.99
Physical: 3U rack mount (610 × 483 × 133 mm), 17 kg
Display: Digital readout

Key Features

Autoranging capability provides higher current availability at more voltage points than rectangular-output supplies
Parallel master/slave architecture supports up to 4 units delivering 20 kW total, or larger configurations exceeding 100 kW
Unified programming interface treats parallel units as a single supply, eliminating individual control requirements
Built-in parallel link enables distributed power without external modules

Interfaces & Control

LAN (LXI Core) USB GPIB Analog interfaces

Typical Applications

High-power ATE systems, device characterization, burn-in testing, and applications requiring stable output across dynamic load conditions.

Features & description

From manufacturer datasheet

Features

- 500 V / 30 A / 5,000 W • Autoranging: 10.0 A @ 500 V; 166.7 V @ 30 A • AC: 400 VAC nominal • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8943A Characteristics / Specifications

PARAMETER	VALUE
Model	N8943A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (5 kW, 400 VAC)
Alias	N8943A DC Output
Voltage	0–500 V; Current: 0–30 A; Power: 5,000 W
Autoranging	10.0 A @ 500 V; 166.7 V @ 30 A
Interfaces	LAN (LXI), USB, GPIB, analog

N8943A Specifications

PARAMETER	VALUE
Applications	High-voltage ATE on 400 Vac; autoranging system DC; parallel multi-unit banks.
Key Features	- 500 V / 30 A / 5,000 W
Technical Specifications	Model: N8943A
DC Output	Voltage: 0–500 V; Current: 0–30 A; Power: 5,000 W
Performance	Per N8900 datasheet 5991-2818EN N8923A/N8943A (500 V / 5 kW) column
AC Input	400 VAC nominal $\pm 10\%$; 3-phase; 45–65 Hz; PF > 0.99
Operational Notes	N8923A 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	N8943A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (5 kW, 400 VAC)
Alias	N8943A

DC Output

Voltage: 0-500 V; Current: 0-30 A; Power: 5,000 W

Current @ Max Voltage: 10.0 A; Voltage @ Max Current: 166.7 V

Performance

Per N8900 datasheet 5991-2818EN N8923A/N8943A (500 V / 5 kW) column

AC Input

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

Operational Notes

N8923A 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

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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.