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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8944A Autoranging System DC Power Supply, 750 V, 20 A, 5000 W

Keysight / Agilent N8944A Autoranging System DC Power Supply The N8944A is an N8900-series autoranging system DC power supply: 750 V / 20 A / 5000 W with 400 VAC three-phase input. Autoranging delivers full power overwide V-I curve; units can be paralleled for higher power. The N8944A is an N8900-series autoranging system DC power supply: 750 V / 20 A / 5000 W with 400 VAC three-phase input. Autoranging delivers full power overwide V-I curve; units can be paralleled for higher power.



MODEL

**Keysight / Agilent
N8944A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8944A

LISTING

<https://aumictechlabs.com/products/n8944a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N8944A Autoranging System DC Power Supply delivers 5 kW of stable DC power from a compact 3U rack-mount chassis. Operating from 360–440 VAC input, It has 0–750 V and 0–20 A output at full 5000 W power, with autoranging capability that consolidates multiple traditional supplies into one unit. Programming accuracy reaches 0.1% for voltage and 0.2% for current, supported by built-in voltage and current measurement. Standard interfaces include LAN (LXI Core), USB, GPIB, and analog connections for rapid system integration into automated test equipment and laboratory environments. Integrated protection covers over-voltage, over-current,

and over-temperature faults. Multiple N8944A units parallel via master/slave control to exceed 100 kW total output, managed as a single cohesive supply.

Technical Specifications

Output Voltage: 0–750 V Output Current: 0–20 A Output Power: 5000 W AC Input Range: 360–440 VAC Voltage Programming Accuracy: 0.1% of full-scale Current Programming Accuracy: 0.2% of full-scale Measurement Capability: Built-in voltage and current measurement

Key Features

Autoranging output enables full power across wide voltage/current combinations, eliminating rectangular output constraints Compact 3U (5.25 inch / 13.34 cm) rack-mount form factor delivers high power density Over-voltage, over-current, and over-temperature protection included as standard LAN (LXI Core), USB, GPIB, and analog interfaces enable direct integration with ATE systems Parallel operation with master/slave control supports distributed power configurations exceeding 100 kW

Typical Applications

Automated Test Equipment (ATE) systems High-power laboratory testing and characterization Multi-unit distributed power architectures

Compatibility & Integration

The N8944A is part of the N8900 Series family offering multiple voltage, current, and power combinations. System-ready architecture simplifies test-system development and deployment.

Features & description

From manufacturer datasheet

Features

• Voltage: 0 to 750 V • Current: 0 to 20 A • Power: 5000 W (5 kW) • Autoranging: full power across wide V/I operating area • Autorange knee class: ~6.7 A at high V / 250 V at high I (series table) • CV ripple p-p (20 Hz–20 MHz): 800 mV • CV ripple rms (20 Hz–300 kHz): 200 mV • Load effect voltage: 375 mV • Load effect current: 30 mA • Programming accuracy (23±5 °C): $V \leq 750$ mV; $I \leq 40$ mA • Measurement accuracy (23±5 °C): $V \leq 750$ mV; $I \leq 40$ mA • Load transient recovery: ≤ 1.5 ms (to within 1% of rated for 10–90% load step) • Interfaces: GPIB, USB, LAN (LXI Core), Analog • AC input: 400 VAC nominal ($\pm 10\%$), 3-phase, 45–65 Hz (N8940–N8957 class) • Efficiency class: ~91% (series 5 kW / 400 VAC tables)

Applications

• High-voltage ATE and burn-in to 750 V • System DC power with GPIB/USB/LAN control • Parallel banks for multi-kW loads

N8944A Characteristics / Specifications

PARAMETER	VALUE
Model	N8944A
Manufacturer	Keysight / Agilent
Instrument Type	Autoranging System DC Power Supply
Alias	N8944A; Keysight N8944A
Voltage	0 to 750 V
Current	0 to 20 A
Power	5000 W (5 kW)
CV ripple rms	200 mV
Load effect V	375 mV
Load effect I	30 mA V program accuracy: ≤ 750 mV I program accuracy: ≤ 40 mA
Transient recovery	≤ 1.5 ms
AC input	400 VAC 3-phase Notes Specs from Keysight N8900 Series Autoranging System DC Power Supplies data sheet (N8944A column). Confirm firmware and parallel master/slave cabling on the unit.
Autoranging	full power across wide V/I operating area
Autorange knee class	~ 6.7 A at high V / 250 V at high I (series table)
CV ripple p-p (20 Hz–20 MHz)	800 mV
CV ripple rms (20 Hz–300 kHz)	200 mV
Load effect voltage	375 mV
Load effect current	30 mA
Programming accuracy (23 $\pm$ 5 °C)	V ≤ 750 mV; I ≤ 40 mA
Measurement accuracy (23 $\pm$ 5 °C)	V ≤ 750 mV; I ≤ 40 mA
Load transient recovery	≤ 1.5 ms (to within 1% of rated for 10–90% load step)
Interfaces	GPIB, USB, LAN (LXI Core), Analog
Efficiency class	$\sim 91\%$ (series 5 kW / 400 VAC tables)

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	
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AC input	400 VAC 3-phase
Specifications	
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Instrument Type	Autoranging System DC Power Supply
Alias	N8944A; Keysight N8944A
Specifications	
PARAMETER	VALUE
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Transient recovery	≤ 1.5 ms
AC input	400 VAC 3-phase

Notes
Specs from Keysight N8900 Series Autoranging System DC Power Supplies data sheet (N8944A column). Confirm firmware and parallel master/slave cabling on the unit.

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.