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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8945A Autoranging System DC Power Supply 80V 340A

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: 400 VAC family N8945A / 208 VAC peer N8925A Agilent Keysight N8945A Autoranging System DC Power Supply 80 V 340 A 10 kW The Agilent/Keysight N8945A is an N8900 Series autoranging system DC power supply. OEM datasheet ratings list 80 V, 340 A, and 10 kW with 400 VAC family N8945A / 208 VAC peer N8925A 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
N8945A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8945A

LISTING

<https://aumictechlabs.com/products/n8945a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N8945A is a high-power autoranging DC power supply designed for demanding automated test equipment (ATE) applications. It has a significant power output with a flexible autoranging capability, allowing it to operate as multiple power supplies in one unit. This supply is part of the N8900 Series, which includes models with 5 kW, 10 kW, and 15 kW outputs, available in both 208 VAC and 400 VAC configurations. The N8945A specifically delivers up to 10 kW of

power with an output voltage range of 0 to 80 V and an output current range of 0 to 340 A. Its autoranging feature provides a wide combination of voltage and current outputs at full power, distinguishing it from traditional "rectangular" output power supplies that offer full power at only one voltage/current setting.

Technical Specifications

DC Output Ratings: Voltage: 0 to 80 V
Current: 0 to 340 A
Power: 10000 W (10 kW)
AC Input: Voltage Range: 360 - 440 VAC
Configurable Input: Available in 208 VAC or 400 VAC models to utilize existing AC wiring

Performance Characteristics: Autoranging Output: Provides flexibility by delivering a wide range of voltage and current combinations at full power. This capability means one N8900 unit can replace multiple traditional power supplies.

Maximum Output Power: Models within the N8900 Series offer 5 kW, 10 kW, and 15 kW maximum output power.

Extended Output Capabilities: Can achieve output voltages up to 1500 V and source current as high as 510 A across the series.

Programming and Measurement: Programmable: Yes
Built-in Measurement: Features integrated voltage and current measurement capabilities.

Programming Accuracy: * Voltage: 0.1% of full-scale * Current: 0.2% of full-scale

Measurement Accuracy: (Specific values not detailed in provided snippets, but accuracy is stated as a feature)

Load Effect: (Change from 0% to 100% of full load)

Load Transient Recovery Time: (Time for output voltage to recover within 1% of its rated output for a load change from 10% to 90% of its rated output current)

Protection Features: Overvoltage Protection: Yes
Overcurrent Protection: Yes
Overtemperature Protection: Yes

Interfaces and Connectivity: Standard Interfaces: LAN (LXI Core), USB, GPIB, and analog interfaces are all standard.

Analog Programming: Output voltage and current can be programmed via analog voltage signals (0-5 V or 0-10 V) corresponding to 0-100% of full-scale.

Physical and Environmental: Rack Space: Compact 3U design saves rack space. High power density, e.g., 15 kW in only 3U (5.25 in / 13.34 cm).

Mounting Type: Rack Mount.

System Integration and Expandability: Parallel Operation: Multiple N8900 units can be easily paralleled to create a single power supply with greater than 100 kW of total output power.

Master/Slave Control: Built-in master/slave control allows programming as if it is one large power supply, eliminating the need to program each unit individually.

Why Choose Aumictech for Keysight N8945A? At Aumictech, we specialize in supplying high-end power supply equipment. Whether you need solid power for complex test setups, reliable performance for critical lab applications, or scalable solutions for enterprise-level projects, our team ensures the Keysight N8945A delivers maximum performance for your application.

N8945A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Autoranging system DC power supply
Series Family	Keysight N8900
Rated Output Voltage	80 V
Rated Output Current	340 A
Rated Output Power	10 kW
AC Input Family	400 VAC family N8945A / 208 VAC peer N8925A
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	510 mA
Voltage Programming Accuracy	80 mV or less at 23 C plus or minus 5 C
Current Programming Accuracy	680 mA 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	680 mA 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	
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Protection Modes	overvoltage overcurrent overtemperature

Notes

Numeric rows from Keysight N8900 Series Autoranging System DC Power Supplies datasheet model column N8945A.

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.