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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8948A Autoranging System DC Power Supply, 500 V, 60 A, 10000 W, 400 VAC

Keysight (Agilent) N8948A Autoranging System DC Power Supply, 500 V, 60 A, 10000 W, 400 VAC The Keysight N8948A is an N8900 Series autoranging system DC power supply (400 VAC) rated 500 V / 60 A / 10 kW. Autoranging supports combinations such as 500 V @ 20 A and 166.7 V @ 60 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 N8948A is an N8900 Series autoranging system DC power supply (400 VAC) rated 500 V / 60 A / 10 kW. Autoranging supports combinations such as 500 V @ 20 A and 166.7 V @ 60 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
N8948A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8948A

LISTING

<https://aumictechlabs.com/products/n8948a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8948A is a high-power autoranging DC power supply engineered for automated test equipment and demanding applications requiring precise, flexible power delivery. Unlike fixed-output supplies, this unit dynamically adjusts voltage and current combinations across its full 10,000 W power envelope, enabling efficient operation across diverse test scenarios.

Operating from 360–440 VAC (400 VAC nominal) input, the N8948A integrates into the N8900 Series platform and supports parallel operation to exceed 100 kW total output.

Technical Specifications
DC Output: 0–500 V, 0–60 A, 10,000 W
AC Input: 360–440 VAC, 400 VAC nominal
Programming Accuracy: $\pm 0.1\%$ of full-scale (voltage), $\pm 0.2\%$ of full-scale (current)
Autoranging Output: Full power available across entire voltage/current envelope
Protection: Over-voltage, over-current, over-temperature
Interfaces: LAN (LXI Core), USB, GPIB, analog
Form Factor: 3U rack-mount, 5.25 inches height

Key Features
Autoranging characteristic eliminates traditional voltage/current trade-offs
Remote sense compensation supported for precision applications
Built-in parent/subsidiary control enables master/slave paralleling
Remote operation via standard test interfaces for ATE integration
High power density in compact 3U form factor

Typical Applications
High-current device characterization and burn-in testing
Power conversion and inverter testing
Battery simulation and charging profiles
High-power component validation
Multi-unit systems for power levels exceeding 100 kW

Compatibility & Integration
The N8948A communicates via LAN, USB, GPIB, and analog interfaces, supporting seamless integration into automated test systems. Master/slave configuration allows multiple units to function as unified supplies delivering combined power beyond 100 kW, with unified programming through a single control interface.

Features & description

From manufacturer datasheet

Features

- 500 V / 60 A / 10,000 W • Autoranging: 20.0 A @ 500 V; 166.7 V @ 60 A • AC: 400 VAC nominal • Interfaces: LAN (LXI), USB, GPIB, analog • OVP/OCP/OTP; parallel primary/secondary

N8948A Characteristics / Specifications

PARAMETER	VALUE
Model	N8948A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8948A DC Output
Voltage	0–500 V; Current: 0–60 A; Power: 10,000 W
Autoranging	20.0 A @ 500 V; 166.7 V @ 60 A
Interfaces	LAN (LXI), USB, GPIB, analog

N8948A Specifications

PARAMETER	VALUE
Applications	High-voltage ATE on 400 Vac; autoranging system DC; parallel multi-unit banks.
Key Features	- 500 V / 60 A / 10,000 W
Technical Specifications	Model: N8948A
DC Output	Voltage: 0–500 V; Current: 0–60 A; Power: 10,000 W
Performance	Per N8900 datasheet 5991-2818EN N8928A/N8948A (500 V / 10 kW) column
AC Input	400 VAC nominal $\pm 10\%$; 3-phase; 45–65 Hz; PF > 0.99
Operational Notes	N8928A 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	N8948A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (10 kW, 400 VAC)
Alias	N8948A

DC Output

Voltage: 0-500 V; Current: 0-60 A; Power: 10,000 W

Current @ Max Voltage: 20.0 A; Voltage @ Max Current: 166.7 V

Performance

Per N8900 datasheet 5991-2818EN N8928A/N8948A (500 V / 10 kW) column

AC Input

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

Operational Notes

N8928A 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.