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Data Sheet

August 3, 2026

KEYSIGHT

Keysight N8934A 500V/90A Autoranging System DC Power Supply

Keysight N8934A 500 V / 90 A Autoranging System DC Power Supply The Keysight N8934A is a 15 kW autoranging system DC power supply in the N8900 Series (208 VAC input family). Autoranging provides many voltage/current combinations at full power: up to 500 V and up to 90 A, with full power available acrossawide operating curve (e.g., 500 V @ 30 A and 166.7 V @ 90 A at 15 kW). Built-in voltage and current measurement, LXI Core LAN, USB, GPIB, and analog interfaces are standard. Compact 3U form factor. The Keysight N8934A is a 15 kW autoranging system DC power supply in the N8900 Series (208 VAC input family). Autoranging provides many voltage/current combinations at full power: up to 500 V and up to 90 A, with full power available acrossawide operating curve (e.g., 500 V @ 30 A and 166.7 V @ 90 A at 15 kW). Built-in voltage and current measurement, LXI Core LAN, USB, GPIB, and analog interfaces are standard. Compact 3U form factor. ATE and system DC bias needing flexible high-power V/I combinations; paralleling multiple identical units for >100 kW; EV, industrial, and high-power electronics validation.



MODEL

Keysight N8934A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8934A

LISTING

<https://aumictechlabs.com/products/n8934a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8934A is a autoranging system DC power supply engineered for demanding ATE, R&D, and manufacturing test applications. Delivering 15,000 W across a 0–500 V output voltage range and 0–90 A output current capability, this single-output unit flexibly combines voltage and current at full power – functioning as the equivalent of multiple fixed-ratio supplies in one chassis.

Technical Specifications

Output Rating Maximum output power: 15,000 W Output voltage: 0 to 500 V Output current: 0 to 90 A Voltage programming accuracy: 0.1% of full-scale Current programming accuracy: 0.2% of full-scale

Input & Power Requirements Input voltage: 208 VAC nominal Input voltage range: 187–240 VAC

Form Factor & Interfaces 3U rack-mount configuration Standard interfaces: LAN (LXI Core), USB, GPIB, analog Built-in web server for remote browser-based control and monitoring

Key Features Autoranging capability enables the N8934A to operate at any voltage/current combination within its 15 kW envelope, unlike conventional supplies limited to full power at a single operating point. Built-in voltage and current measurement functions support closed-loop test control. Over-voltage, over-current, and over-temperature protection circuitry safeguard connected loads. Parallel connection of up to ten identical units yields over 100 kW aggregate output power, with simplified programming that treats the paralleled stack as a single supply. Series operation is not supported.

Typical Applications ATE systems requiring multi-voltage component testing, power conversion device characterization, battery simulator applications, and manufacturing test stations where power supply flexibility and density are critical.

Compatibility & Integration Member of the N8900 Series. Compatible with identical N8934A units for parallel operation via built-in parallel link. Firmware and software support available through Keysight's website. LXI Core compliance enables standardized instrument discovery and control across networked test systems.

Features & description

From manufacturer datasheet

Features

- Max ratings: 500 V / 90 A / 15,000 W • Autoranging: Current @ max voltage 30 A; Voltage @ max current 166.7 V • AC input: 208 VAC nominal (N8934A); 3-phase • Interfaces: LAN (LXI Core), USB 2.0, GPIB, analog programming/monitor – all standard • Protection: OVP, OCP, OTP • Parallel primary/secondary for higher current (up to 10 identical units) • Built-in web server for remote browser control • Programming/measurement accuracy and ripple per N8900 datasheet

N8934A Characteristics / Specifications

PARAMETER	VALUE
Model	N8934A
Manufacturer	Keysight Technologies
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (15 kW, 208 VAC)
Alias	N8934A; Keysight N8934A DC Output Ratings
Voltage	0 to 500 V
Current	≤ 180 mA Measurement Accuracy (23 °C ± 5 °C)
Power	15,000 W (15 kW)
Output Ripple and Noise (N8934A / N8954A class)	500 V / 15 kW column)
CV rms (20 Hz	300 kHz): 70 mV
CC rms (typical supplemental)	48 mA Load Effect (0% to 100% full load)
Supplemental (Typical)	N8934A / N8954A
Command Response Time	< 25 ms
Remote Sense Compensation	10 V / load lead
OVP Range	0–550 V
Programming Resolution	Voltage 21 mV; Current 4 mA
Measurement Resolution	Voltage 21 mV; Current 4 mA
Output Terminal Isolation	Positive +1000 V; Negative ±725 V
Nominal	208–240 VAC (208 VAC model family)
Range	Nominal ±10%
Frequency	45–65 Hz
Phase	3-phase
Power Factor	> 0.99
Input Current (15 kW class)	3 × 56 A (family table)
Inrush (15 kW class)	97 A Analog Programming

PARAMETER	VALUE
Input Range	Selectable 0–5 V or 0–10 V (0–100% full scale)
Accuracy	Specified accuracy + 0.2% of rating
Input Impedance	150 k Ω Environmental
Operating Temperature	0 °C to 45 °C
Storage Temperature	–20 °C to 70 °C
Altitude	2000 m
Form Factor	3U; 15 kW models weight ~35.2 kg (208 VAC) Interfaces GPIB, USB 2.0, 10/100 LAN; SCPI-1993 / IEEE-488.2; LXI Core 2011
Savable States	10 nonvolatile
Parallel	Primary/secondary yes; series not recommended Operational Notes N8954A is the 400 VAC twin of N8934A (same 500 V / 90 A / 15 kW). Choose 208 vs 400 VAC model for the site mains. Prefer Keysight N8900 Series datasheet 5991-2818EN for full tables.
Max ratings	500 V / 90 A / 15,000 W
Autoranging	Current @ max voltage 30 A; Voltage @ max current 166.7 V
AC input	208 VAC nominal (N8934A); 3-phase
Interfaces	LAN (LXI Core), USB 2.0, GPIB, analog programming/monitor – all standard
Protection	OVP, OCP, OTP

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	−20 °C to 70 °C
Operating temperature	0 °C to 45 °C
Operating Temperature	0 °C to 45 °C
Altitude	2000 m
Form Factor	3U; 15 kW models weight ~35.2 kg (208 VAC) Interfaces GPIB, USB 2.0, 10/100 LAN; SCPI-1993 / IEEE-488.2; LXI Core 2011
Savable States	10 nonvolatile
Parallel	Primary/secondary yes; series not recommended Operational Notes N8954A is the 400 VAC twin of N8934A (same 500 V / 90 A / 15 kW). Choose 208 vs 400 VAC model for the site mains. Prefer Keysight N8900 Series datasheet 5991-2818EN for full 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	
Specifications	
PARAMETER	VALUE
Model	N8934A
Manufacturer	Keysight Technologies
Instrument Type	Autoranging System DC Power Supply
Family	N8900 Series (15 kW, 208 VAC)
Alias	N8934A; Keysight N8934A
DC Output Ratings	
Specifications	
PARAMETER	VALUE
Voltage	0 to 500 V
Current	0 to 90 A
Power	15,000 W (15 kW)
Current @ Max Voltage: 30.0 A	
Voltage @ Max Current: 166.7 V	
Output Ripple and Noise (N8934A / N8954A class – 500 V / 15 kW column)	
CV p-p (20 Hz–20 MHz): 350 mV	
CV rms (20 Hz–300 kHz): 70 mV	
CC rms (typical supplemental): 48 mA	
Load Effect (0% to 100% full load)	
Voltage: 250 mV	
Current: 135 mA	
Programming Accuracy (23 °C ± 5 °C)	
Voltage: ≤ 500 mV	
Current: ≤ 180 mA	
Measurement Accuracy (23 °C ± 5 °C)	
Specifications	
PARAMETER	VALUE
Voltage	≤ 500 mV
Current	≤ 180 mA
Supplemental (Typical)	N8934A / N8954A

Output Response Time (10%*90% of voltage excursion): Up full load ≤ 30 ms; Down full load ≤ 80 ms; Down no load ≤ 10 s

Specifications

PARAMETER	VALUE
Command Response Time	< 25 ms
Remote Sense Compensation	10 V / load lead
OVP Range	0–550 V

Source Effect (±10% AC): Voltage 100 mV; Current 45 mA

Specifications

PARAMETER	VALUE
Programming Resolution	Voltage 21 mV; Current 4 mA
Measurement Resolution	Voltage 21 mV; Current 4 mA
Output Terminal Isolation	Positive +1000 V; Negative ±725 V

Efficiency (208 VAC models, this class): ~91%

Load Transient Recovery

Time for output voltage to recover within 1% of rated for 10%*90% load current change: ≤ 1.5 ms

AC Input (N8934A)

Specifications

PARAMETER	VALUE
Nominal	208–240 VAC (208 VAC model family)
Range	Nominal ±10%
Frequency	45–65 Hz
Phase	3-phase
Power Factor	> 0.99
Input Current (15 kW class)	3 × 56 A (family table)
Inrush (15 kW class)	97 A

Analog Programming

Specifications

PARAMETER	VALUE
Input Range	Selectable 0–5 V or 0–10 V (0–100% full scale)
Accuracy	Specified accuracy + 0.2% of rating
Input Impedance	150 kΩ

Environmental

Environmental

PARAMETER	VALUE
Operating Temperature	0 °C to 45 °C
Storage Temperature	-20 °C to 70 °C
Altitude	2000 m
Form Factor	3U; 15 kW models weight ~35.2 kg (208 VAC)

Interfaces
 GPIB, USB 2.0, 10/100 LAN; SCPI-1993 / IEEE-488.2; LXI Core 2011
 Savable States: 10 nonvolatile
 Parallel: Primary/secondary yes; series not recommended

Operational Notes
 N8954A is the 400 VAC twin of N8934A (same 500 V / 90 A / 15 kW). Choose 208 vs 400 VAC model for the site mains. Prefer Keysight N8900 Series datasheet 5991-2818EN for full tables.

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.