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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N7952A Advanced Power System – Dynamic DC Power Supply, 40 V, 25 A, 1000 W

Agilent / Keysight N7952A APS Dynamic DC Power Supply 40 V 25 A 1000 W The Keysight N7952A is a 1 kW Advanced Power System (APS) N7900 Series dynamic DC power supply rated 0 to 40 V at 25 A. Built on VersaPower architecture for ATE, it provides high-speed up/down programming (to 500 us class), dual high-accuracy voltage/current measurement with digitizing, and built-in power, peak power, amp-hour, and watt-hour calculations. Default current sink is 10% of rating (-2.5 A); full two-quadrant sink to -25 A requires an N7909A dissipater. The Keysight N7952A is a 1 kW Advanced Power System (APS) N7900 Series dynamic DC power supply rated 0 to 40 V at 25 A. Built on VersaPower architecture for ATE, it provides high-speed up/down programming (to 500 us class), dual high-accuracy voltage/current measurement with digitizing, and built-in power, peak power, amp-hour, and watt-hour calculations. Default current sink is 10% of rating (-2.5 A); full two-quadrant sink to -25 A requires an N7909A dissipater. ATE dynamic sourcing and measurement; battery and power-storage source/sink characterization; high-throughput power profiling of DUTs; paralleled APS systems up to multi-kW; LXI/GPIB/USB automated power test racks.



MODEL Keysight / Agilent N7952A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU N7952A	LISTING https://aumictechlabs.com/products/n7952a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight (Agilent) N7952A Advanced Power System is a 1000 W dynamic DC power supply engineered for automated test equipment (ATE) environments requiring high-speed dynamic sourcing and measurement. Operating at 40 V and 25 A, this unit delivers accelerated test throughput - up to 100 times faster than standard system power supplies - with command processing under 2 ms and programming speeds reaching 500 μ s.

Technical Specifications
Output power: 1000 W Voltage rating: 40 V Current rating: 25 A Command processing speed: < 2 ms Programming speed: 500 μ s Throughput acceleration: up to 100 $\times$ faster than standard supplies

Key Features
Dynamic sourcing and measurement capabilities for rapid transient response Built on Keysight's VersaPower architecture Sub-millisecond command execution enabling rapid test sequencing High-speed programming optimized for production test environments

Typical Applications
Automated test equipment (ATE) requiring dynamic load simulation High-volume production testing with strict throughput requirements Applications demanding fast transient response and measurement accuracy Accelerated functional and parametric testing

Compatibility & Integration
The N7952A integrates with Keysight's VersaPower ecosystem, designed for modular ATE configurations where dynamic power delivery and rapid command execution are critical to test cost and cycle time optimization.

Features & description

From manufacturer datasheet

Features

- 0 to 40 V, 25 A, 1000 W dynamic APS source/measure
- Up/down programming speeds to about 500 us
- SimultaneousVandImeasure; digitize dynamic profiles
- Built-in power, peak power, Ah, Wh calculations
- Sink 10% continuous; 100% with N7909A dissipater
- GPIB, LAN (LXI Core), USB; 1U full-rack footprint
- Parallel capability within APS family toward 10 kW class
- Built-in LXI web control interface

N7952A Characteristics / Specifications

PARAMETER	VALUE
Model	N7952A
Manufacturer	Keysight / Agilent
Instrument Type	APS dynamic DC power supply
Alias	N7952A; Agilent N7952A; Keysight N7952A
Voltage Range	0 to 40 V
Current Maximum	25 A
Power Maximum	1000 W
Current Sink Default 10%	-2.5 A continuous
Current Sink with N7909A 100%	-25 A continuous
Form Factor	1U full-rack
Dimensions Class	about 1.75 inHx 16.81 inWx 22.39 in D (44.45 × 426.9 × 568.7 mm)
Programming Interfaces	GPIB (IEEE-488), LAN (LXI Core), USB
Up/Down Programming Speed Class	up to 500 us
Voltage Programming Precision Class	14-bit (16-bit with related APS options on N6900 path)
Current Programming Accuracy Class	0.04% + 4 mA (40 V 1 kW class, 23 C +/-5 C, NPLC=1, 1 year)
Measurement Modes	Averaged DMM-quality; digitized dynamic capture
Calculated Metrics	Power; peak power; amp-hour; watt-hour
AC Mains	100 to 240 VAC nominal; 50/60/400 Hz; full power above about 180 VAC
Derated Power below 180 VAC	limited to about 700 W
Web Interface	Built-in LXI web control
Series Family	APS N7900 dynamic DC supplies
Sibling 2 kW Model	N7972A (40 V, 50 A) Notes Specs from Keysight Advanced Power System N6900/N7900 datasheet 5991-2698. Confirm firmware, dissipater N7909A presence for full sink, and AC mains capability for full 1 kW output.

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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Instrument Type	APS dynamic DC power supply
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Voltage Range	0 to 40 V
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Voltage Programming Precision Class	14-bit (16-bit with related APS options on N6900 path)
Current Programming Accuracy Class	0.04% + 4 mA (40 V 1 kW class, 23 C +/-5 C, NPLC=1, 1 year)
Low-Range Current Accuracy Class: 0.05% + 0.6 mA class (40 V models)	
Specifications	
PARAMETER	VALUE
Measurement Modes	Averaged DMM-quality; digitized dynamic capture
Calculated Metrics	Power; peak power; amp-hour; watt-hour
AC Mains	100 to 240 VAC nominal; 50/60/400 Hz; full power above about 180 VAC
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Web Interface	Built-in LXI web control
Series Family	APS N7900 dynamic DC supplies
Sibling 2 kW Model	N7972A (40 V, 50 A)

Notes

Specs from Keysight Advanced Power System N6900/N7900 datasheet 5991-2698. Confirm firmware, dissipater N7909A presence for full sink, and AC mains capability for full 1 kW output.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.