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Data Sheet

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KEYSIGHT / AGILENT

Keysight (Agilent) N7950A Advanced Power System – Dynamic DC Power Supply, 9V, 100A, 1000W

Keysight (Agilent) N7950A Advanced Power System – Dynamic DC Power Supply, 9 V, 100 A, 1000 W The Keysight N7950A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. Designed for high-speed dynamic sourcing and measurement in ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-speed ATE power profiling; inrush and transient sourcing; continuous source/sink for low-voltage high-current storage tests. The Keysight N7950A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. Designed for high-speed dynamic sourcing and measurement in ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-speed ATE power profiling; inrush and transient sourcing; continuous source/sink for low-voltage high-current storage tests.



MODEL

**Keysight / Agilent
N7950A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7950A

LISTING

<https://aumictechlabs.com/products/n7950a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7950A is a 1000W advanced dynamic DC power supply engineered for automated test equipment (ATE) applications. Built on Keysight's VersaPower architecture, it delivers 9V output at up to 100A with exceptional speed and measurement precision. Command processing executes in less than 2 ms, with programming speeds reaching 500 μ s, enabling test throughput up to 100 times faster than standard system supplies. The unit simultaneously measures voltage and current with dual-mode capability - averaged mode for DMM-quality precision or digitized mode for dynamic profile capture exceeding typical oscilloscope resolution. Two-quadrant operation supports power storage testing with smooth positive/negative current transitions. Paralleling expands capacity to 10 kW while maintaining equal current sharing across supplies. The 1U rackmount design integrates via GPIB, USB, and LAN interfaces, with optional Black Box Recorder for comprehensive power event and measurement data logging.

Technical Specifications
Output Power: 1000W (1 kW) Output Voltage: 9V Output Current: 100A Command Processing Speed: Less than 2 ms Programming Speed: Up to 500 μ s (fast up/down) Test Speed Improvement: Up to 100x faster than standard supplies Measurement Modes: Averaged (DMM-quality) and digitized (dynamic profile capture) Form Factor: 1U rack mount Display: LCD Digital Interfaces: GPIB, USB, LAN

Key Features Dual voltage and current measurement with simultaneous high-accuracy, high-resolution capability Programmable positive and negative current limits and waveforms Two-quadrant operation for power storage applications (full operation requires N7909A dissipater unit) Built-in APS paralleling for expansion to 10 kW with equal current sharing Automatic downprogramming Optional N7908A Black Box Recorder for power events, trigger events, and status tracking Power, peak power, watt-hour, and amp-hour measurement capability Adjustable measurement rate balancing speed and accuracy

Typical Applications Battery and power storage device characterization Transient load testing and dynamic power profile analysis Automated test equipment (ATE) power sourcing Device power consumption validation

Compatibility & Integration APS Power Assistant Software (free) for setup and advanced measurement display 14585A Power Supply Control and Analysis Software for sourcing and measurement features Multi-unit expansion via built-in APS paralleling architecture

Features & description

From manufacturer datasheet

Features

- 0–9 V / 0–100 A / 900 W (1 kW APS class)
- Current sink: –10 A (10%); –100 A with N7909A
- Dynamic N7900 Series (faster programming/measurement than N6900)
- Dual V/I measurement; power / Wh / Ah
- 1U full-rack; parallel to 10 kW
- Interfaces: GPIB, LAN (LXI-Core), USB
- Typical programming: voltage up/down settling on the order of ~0.5 ms / ~0.35 ms (published class figures)

N7950A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N7950A Advanced Power System	Dynamic DC Power Supply, 9 V, 100 A, 1000 W Overview The Keysight N7950A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. Designed for high-speed dynamic sourcing and measurement in ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.
Model	N7950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System Dynamic DC Power Supply
Family	N7900 Series APS (1 kW)
Alias	N7950A; N7950A APS DC Output
Voltage	0 to 9 V
Current	0 to 100 A
Power	900 W (Keysight 1 kW APS model class; 9 V × 100 A)
Measurement	dual V/I with high-resolution digitizer (Option 301 measurement enhancements per datasheet) Mechanical / I/O
Form factor	1U; approx. 426.9 × 44.45 × 568.7 mm (published)
Interfaces	GPIB, LAN (LXI-Core), USB Operational Notes N6950A is the N6900 high-performance (non-dynamic) twin. Prefer Keysight APS N6900/N7900 datasheet 5991-2698.
Current sink	–10 A (10%); –100 A with N7909A
Typical programming	voltage up/down settling on the order of ~0.5 ms / ~0.35 ms (published class figures)

N7950A Specifications

PARAMETER	VALUE
Applications	High-speed ATE power profiling; inrush and transient sourcing; continuous source/sink for low-voltage high-current storage tests.
Key Features	- 0–9 V / 0–100 A / 900 W (1 kW APS class)
Technical Specifications	Model: N7950A
DC Output	Voltage: 0 to 9 V
Performance	Output ripple & noise / accuracies: per APS N7900 datasheet 5991-2698 N7950A (9 V) column
Mechanical / I/O	Form factor: 1U; approx. 426.9 × 44.45 × 568.7 mm (published)
Operational Notes	N6950A is the N6900 high-performance (non-dynamic) twin. Prefer Keysight APS N6900/N7900 datasheet 5991-2698.

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	N7950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System Dynamic DC Power Supply
Family	N7900 Series APS (1 kW)
Alias	N7950A; N7950A APS

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 9 V
Current	0 to 100 A
Power	900 W (Keysight 1 kW APS model class; 9 V × 100 A)

Current sink @10%: -10 A

Current sink @100% (with N7909A): -100 A

Performance

Output ripple & noise / accuracies: per APS N7900 datasheet 5991-2698 N7950A (9 V) column

Load regulation voltage class ~0.5 mV (9 V column family)

Measurement: dual V/I with high-resolution digitizer (Option 301 measurement enhancements per datasheet)

Mechanical / I/O

Form factor: 1U; approx. 426.9 × 44.45 × 568.7 mm (published)

Interfaces: GPIB, LAN (LXI-Core), USB

Operational Notes

N6950A is the N6900 high-performance (non-dynamic) twin. Prefer Keysight APS N6900/N7900 datasheet 5991-2698.

Ordering Information

OPTION	DESCRIPTION
Option 301	measurement enhancements per datasheet)

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

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788 S 500 E, Pleasant Grove, UT 84062
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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.