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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6950A Advanced Power System – DC Power Supply, 9 V, 100 A, 1000 W

Keysight (Agilent) N6950A Advanced Power System – DC Power Supply, 9 V, 100 A, 1000 W

The Keysight N6950A is an N6900 Series Advanced Power System DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-performance low-voltage high-current ATE; continuous source/sink; power-storage tests. The Keysight N6950A is an N6900 Series Advanced Power System DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-performance low-voltage high-current ATE; continuous source/sink; power-storage tests.



MODEL

**Keysight / Agilent
N6950A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6950A

LISTING

<https://aumictechlabs.com/products/n6950a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6950A Advanced Power System is a DC power supply engineered for demanding automated test equipment (ATE) applications. Delivering 0–9 VDC at 0–100 A with 1000 W total

output, it combines fast transient response, precision measurement, and two-quadrant capability to accelerate test cycles and improve device characterization accuracy.

Technical Specifications

Output Ratings Voltage: 0 to 9 VDC Current: 0 to 100 A Power: 1000 W AC Input: 100 to 240 VAC, 50/60/400 Hz Precision & Control Output Ripple and Noise: < 1 mV RMS / 9 mV peak to peak Load Regulation: 0.5 mV; 8 mA Voltage Programming Resolution: 14 bits Current Programming Resolution: 14 bits Voltage Measurement Resolution: 18 bits Current Measurement Resolution: 18 bits Transient Settling Time: 100 μ s Command Processing Speed: < 2 ms Response Time (Voltage): 3 ms increase / 3 ms decrease Fast Programming: Up to 500 μ s; Up to 3 ms

Key Features

High Density: 1000 W in a single 1U rack unit (10.9 kg, 426.9 mm W $\times$ 44.45 mm H $\times$ 568.7 mm D). Two-Quadrant Operation: Standard 10% negative current capability; optional N7909A Power Dissipater Unit enables full source/sink operation. Scalable Architecture: Parallel up to 10 kW with equal current sharing across multiple units. Advanced Measurement: Dual voltage and current measurement with 18-bit resolution. Supports power, peak power, watt-hour, and amp-hour calculations. Test Acceleration: Delivers test speeds up to 100x faster than standard power supplies. Complex Sequencing: Programmable rise time, extended trigger options, output list capability, and constant-dwell arbitrary waveforms. Protection: Integrated over/under voltage and current protection.

Interfaces & Compatibility

LAN (LXI Core) USB GPIB (IEEE-488) Optional N7908A Black Box Recorder for power event tracking Relay Options: 760 (Output Disconnect and Polarity Reversal), 761 (Output Disconnect) Accuracy Package (Option 301): Enhanced programming and measurement accuracy with second seamless current measurement range Measurement Enhancements (Option 302): External data logging and voltage/current digitizers

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 • N6900 Series (high performance APS) • Dual V/I measurement; power / Wh / Ah • 1U full-rack; parallel to 10 kW • Interfaces: GPIB, LAN (LXI-Core), USB

N6950A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N6950A Advanced Power System	DC Power Supply, 9 V, 100 A, 1000 W Overview The Keysight N6950A is an N6900 Series Advanced Power System DC power supply rated 0–9 V / 0–100 A (900 W output; 1 kW APS class) in a 1U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–10 A); with N7909A dissipater, full 100% sink (–100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.
Model	N6950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (1 kW)
Alias	N6950A; N6950A 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)
Current sink	–10 A (10%); –100 A with N7909A
Interfaces	GPIB, LAN (LXI-Core), USB

N6950A Specifications

PARAMETER	VALUE
Applications	High-performance low-voltage high-current ATE; continuous source/sink; power-storage tests.
Key Features	- 0–9 V / 0–100 A / 900 W (1 kW APS class)
Technical Specifications	Model: N6950A
DC Output	Voltage: 0 to 9 V
Performance	Per APS N6900 datasheet 5991-2698 N6950A (9 V / 1 kW) column
Operational Notes	N7950A is the N7900 dynamic twin. Prefer Keysight APS 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.

performance ATE. Standalone sink to 10% (~10 A); with N7909A dissipater, full 100% sink (~100 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.

Applications

High-performance low-voltage high-current ATE; continuous source/sink; power-storage tests.

Key Features

- 0-9 V / 0-100 A / 900 W (1 kW APS class)
- Current sink: -10 A (10%); -100 A with N7909A
- N6900 Series (high performance APS)
- Dual V/I measurement; power / Wh / Ah
- 1U full-rack; parallel to 10 kW
- Interfaces: GPIB, LAN (LXI-Core), USB

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N6950A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (1 kW)
Alias	N6950A; N6950A 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

Per APS N6900 datasheet 5991-2698 N6950A (9 V / 1 kW) column
Load regulation voltage class ~0.5 mV (9 V column family)

Operational Notes

N7950A is the N7900 dynamic twin. Prefer Keysight APS datasheet 5991-2698.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.