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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6971A Advanced Power System – DC Power Supply, 20 V, 100 A, 2000 W

Keysight (Agilent) N6971A Advanced Power System – DC Power Supply, 20 V, 100 A, 2000 W

The Keysight N6971A is an N6900 Series Advanced Power System DC power supply rated 0–20 V / 0–100 A / 2 kW in a 2U 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; paralleled APS banks. The Keysight N6971A is an N6900 Series Advanced Power System DC power supply rated 0–20 V / 0–100 A / 2 kW in a 2U 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; paralleled APS banks.



MODEL

**Keysight / Agilent
N6971A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6971A

LISTING

<https://aumictechlabs.com/products/n6971a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6971A Advanced Power System is a 2000 W DC power supply delivering 0–20 VDC at 0–100 A for automated test equipment applications demanding high speed and precision. Built on Keysight's VersaPower architecture, the N6971A accelerates test throughput by up to 100x compared to standard power supplies while maintaining DMM-like measurement accuracy

across voltage and current channels. Command processing completes in under 2 ms, with programming transitions in 3 ms - or 0.5 ms per transition with Option 303 Source & Speed Enhancements. Transient settling time reaches 100 μ s, enabling rapid load step response. The 18-bit measurement resolution captures voltage and current with high fidelity, while 14-bit programming resolution ensures precise output control across the full 0–20 V and 0–100 A range. Technical Specifications Output: 2000 W, 0–20 VDC, 0–100 A (single output) Measurement Resolution: 18-bit voltage and current; 14-bit programming resolution Command Processing: <2 ms response time Programming Speed: 3 ms nominal; 0.5 ms per transition with Option 303 Transient Settling: 100 μ s Measurement Rate: Adjustable to balance speed and accuracy Input Power: 100–240 VAC Rack Space: 2U (426.9 mm W $\times$ 88.1 mm H $\times$ 633.2 mm D); 15.5 kg Key Features Dual voltage and current measurement with DMM-grade accuracy Integrated power, peak power, watt-hour, and amp-hour measurement functions Two-quadrant operation: 10% negative current standard; full $\pm$ 100 A sinking capability with N7909A dissipater unit Programmable positive and negative current limits and waveforms GPIB (IEEE-488), LAN (LXI-Core), and USB interfaces Optional 301 Accuracy Package for improved programming and measurement precision with seamless dual-range current measurement Optional 302 Measurement Enhancements including external data logging and programmable digitizers for voltage and current VersaPower Architecture for integrated power delivery APS Power Assistant Software included Typical Applications Aerospace, defense, automotive, and renewable energy test environments requiring fast transient response, precise measurement, and regenerative energy handling. Compatibility & Integration Standard GPIB, LAN, and USB connectivity enable integration into multi-instrument ATE systems. Supports both sourcing and sinking operation for battery charging, power storage, and bidirectional power flow applications.

Features & description

From manufacturer datasheet

Features

- 0–20 V / 0–100 A / 2,000 W • Current sink: –10 A (10%); –100 A with N7909A • N6900 Series (high performance APS) • Dual V/I measurement; power / Wh / Ah • 2U full-rack; parallel to 10 kW • Interfaces: GPIB, LAN (LXI-Core), USB

N6971A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N6971A Advanced Power System	DC Power Supply, 20 V, 100 A, 2000 W Overview The Keysight N6971A is an N6900 Series Advanced Power System DC power supply rated 0–20 V / 0–100 A / 2 kW in a 2U 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	N6971A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6971A; N6971A APS DC Output
Voltage	0 to 20 V
Current	0 to 100 A
Power	2,000 W
Current sink	–10 A (10%); –100 A with N7909A
Interfaces	GPIB, LAN (LXI-Core), USB

N6971A Specifications

PARAMETER	VALUE
Applications	High-performance low-voltage high-current ATE; continuous source/sink; paralleled APS banks.
Key Features	- 0–20 V / 0–100 A / 2,000 W
Technical Specifications	Model: N6971A
DC Output	Voltage: 0 to 20 V
Performance	Per APS N6900 datasheet 5991-2698 N6971A (20 V / 2 kW) column
Operational Notes	N7971A 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; paralleled APS banks.

Key Features

- 0-20 V / 0-100 A / 2,000 W
- Current sink: -10 A (10%); -100 A with N7909A
- N6900 Series (high performance APS)
- Dual V/I measurement; power / Wh / Ah
- 2U full-rack; parallel to 10 kW
- Interfaces: GPIB, LAN (LXI-Core), USB

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N6971A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6971A; N6971A APS

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 20 V
Current	0 to 100 A
Power	2,000 W

Current sink @10%: -10 A
Current sink @100% (with N7909A): -100 A

Performance

Per APS N6900 datasheet 5991-2698 N6971A (20 V / 2 kW) column

Operational Notes

N7971A 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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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.