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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6972A Advanced Power System – DC Power Supply, 40 V, 50 A, 2000 W

Keysight (Agilent) N6972A Advanced Power System – DC Power Supply, 40 V, 50 A, 2000 W

The Keysight N6972A is an N6900 Series Advanced Power System DC power supply rated 0–40 V / 0–50 A / 2 kW in a 2U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–5 A); with N7909A dissipater, full 100% sink (–50 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-performance ATE sourcing; continuous source/sink; paralleled APS banks. The Keysight N6972A is an N6900 Series Advanced Power System DC power supply rated 0–40 V / 0–50 A / 2 kW in a 2U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–5 A); with N7909A dissipater, full 100% sink (–50 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-performance ATE sourcing; continuous source/sink; paralleled APS banks.



MODEL

**Keysight / Agilent
N6972A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6972A

LISTING

<https://aumictechlabs.com/products/n6972a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6972A Advanced Power System is a single-output DC power supply delivering 2000 W across 0–40 V DC and 0–50 A DC in a compact 2U rack-mount form factor. Built on Keysight's VersaPower architecture, it combines high-speed voltage and current programming with precision measurement capabilities to accelerate ATE test cycles and reduce development

overhead. The unit achieves test speeds up to 100× faster than standard system supplies through 3 ms voltage programming, 100 μs transient response, and integrated power analysis functions.

Technical Specifications

Output Power: 2000 W maximum
Voltage Range: 0 to 40 V DC
Current Range: 0 to 50 A DC
Input: 240 VAC
Form Factor: 2U rack mount (426.9 mm W × 88.1 mm H × 633.2 mm D)
Programming Precision: 14-bit voltage and current
Measurement Precision: 18-bit voltage and current
Output Ripple: <9 mVpp
Voltage Programming Time: 3 ms (500 μs with Option 303)
Command Processing: <2 ms
Transient Recovery: 100 μs

Key Features

Two-quadrant operation enables current-sink functionality; standard 10% of rated current, expandable to 100% with optional N7909A dissipater unit
Parallel operation supports up to 10 kW with equal current sharing across multiple supplies
Dual voltage and current measurement with DMM-grade accuracy; advanced functions include Power, Peak Power, Watt-hour, and Amp-hour calculations
Adjustable measurement rate balances test speed against accuracy requirements
Smart triggering and output sequencing with adjustable slew rate
Optional arbitrary waveform generation and output list capability (Option 303)
Optional black-box recorder (N7908A) logs continuous output parameters and trigger events

Interfaces & Software Integration

GPIB (IEEE-488), LAN (LXI-Core), USB
BenchVue software for PC control without programming
APS Power Assistant Software for advanced display, setup, and measurement functions

Typical Applications

Automated test equipment for device characterization, power profile validation, power storage and efficiency measurements.

Features & description

From manufacturer datasheet

Features

- 0–40 V / 0–50 A / 2,000 W • Current sink: –5 A (10%); –50 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

N6972A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N6972A Advanced Power System	DC Power Supply, 40 V, 50 A, 2000 W Overview The Keysight N6972A is an N6900 Series Advanced Power System DC power supply rated 0–40 V / 0–50 A / 2 kW in a 2U footprint. VersaPower architecture for high-performance ATE. Standalone sink to 10% (–5 A); with N7909A dissipater, full 100% sink (–50 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.
Model	N6972A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6972A; N6972A APS DC Output
Voltage	0 to 40 V
Current	0 to 50 A
Power	2,000 W
Current sink	–5 A (10%); –50 A with N7909A
Interfaces	GPIB, LAN (LXI-Core), USB

N6972A Specifications

PARAMETER	VALUE
Key Features	- 0–40 V / 0–50 A / 2,000 W
Technical Specifications	Model: N6972A
DC Output	Voltage: 0 to 40 V
Performance	Per APS N6900 datasheet 5991-2698 N6972A (40 V / 2 kW) column
Operational Notes	N7972A 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% (-5 A); with N7909A dissipater, full 100% sink (-50 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.

Applications

High-performance ATE sourcing; continuous source/sink; paralleled APS banks.

Key Features

- 0-40 V / 0-50 A / 2,000 W
- Current sink: -5 A (10%); -50 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	N6972A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6972A; N6972A APS

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 40 V
Current	0 to 50 A
Power	2,000 W

Current sink @10%: -5 A
Current sink @100% (with N7909A): -50 A

Performance

Per APS N6900 datasheet 5991-2698 N6972A (40 V / 2 kW) column

Operational Notes

N7972A 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.