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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N7974A Advanced Power System – Dynamic DC Power Supply, 80 V, 25 A, 2000 W

Keysight (Agilent) N7974A Advanced Power System – Dynamic DC Power Supply, 80 V, 25 A, 2000 W The Keysight N7974A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–80 V / 0–25 A / 2 kW in a 2U footprint. High-speed dynamic sourcing and measurement for ATE. Standalone sink to 10% (–2.5 A); with N7909A dissipater, full 100% sink (–25 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-speed ATE power profiling; continuous source/sink; dynamic 80 V load/source tests. The Keysight N7974A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–80 V / 0–25 A / 2 kW in a 2U footprint. High-speed dynamic sourcing and measurement for ATE. Standalone sink to 10% (–2.5 A); with N7909A dissipater, full 100% sink (–25 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW. High-speed ATE power profiling; continuous source/sink; dynamic 80 V load/source tests.



MODEL

**Keysight / Agilent
N7974A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N7974A

LISTING

<https://aumictechlabs.com/products/n7974a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7974A is an advanced dynamic DC power supply engineered for precision voltage and current sourcing in demanding test environments. Rated at 80 V, 25 A, and 2000 W, it delivers fast transient response and high-speed programmable slew rates essential for characterizing

complex electronic components under dynamic load conditions. The unit combines high-precision voltage and current regulation with flexible output modes - constant voltage (CV), constant current (CC), and constant power (CP) - enabling automated testing of devices with varying power requirements.

Technical Specifications

Voltage output: 0–80 V
Current output: 0–25 A
Power rating: 2000 W
Programmable slew rate for high-speed transient sourcing and sinking
Fast transient response to minimize voltage deviations during rapid load changes
High-precision voltage regulation and current regulation
Programming and readback accuracy for both voltage and current
CV/CC/CP output modes with automatic crossover

Key Features

Full digital control via front panel and remote interfaces
List mode and sequencing for complex automated test sequences
Internal resistance simulation to replicate source impedance characteristics
Over-voltage protection (OVP), over-current protection (OCP), and over-temperature protection (OTP)
Arbitrary waveform generation capability
LAN (Ethernet) remote control interface

Typical Applications

Transient load simulation and device response analysis
Power delivery validation for sensitive circuits
Component and subsystem reliability characterization
Current-driven application testing and circuit protection validation

Compatibility & Integration

Remote operation and automation via standard LAN (Ethernet) connectivity enable seamless integration into automated test systems and complex measurement workflows.

Features & description

From manufacturer datasheet

Features

- 0–80 V / 0–25 A / 2,000 W • Current sink: –2.5 A (10%); –25 A with N7909A • Dynamic N7900 Series
- Dual V/I measurement; power / Wh / Ah • 2U full-rack; parallel to 10 kW • Interfaces: GPIB, LAN (LXI-Core), USB

N7974A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N7974A Advanced Power System	Dynamic DC Power Supply, 80 V, 25 A, 2000 W Overview The Keysight N7974A is an N7900 Series Advanced Power System dynamic DC power supply rated 0–80 V / 0–25 A / 2 kW in a 2U footprint. High-speed dynamic sourcing and measurement for ATE. Standalone sink to 10% (–2.5 A); with N7909A dissipater, full 100% sink (–25 A). GPIB/LAN (LXI)/USB; paralleling to 10 kW.
Model	N7974A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System Dynamic DC Power Supply
Family	N7900 Series APS (2 kW)
Alias	N7974A; N7974A APS DC Output
Voltage	0 to 80 V
Current	0 to 25 A
Power	2,000 W
Current sink	–2.5 A (10%); –25 A with N7909A
Interfaces	GPIB, LAN (LXI-Core), USB

N7974A Specifications

PARAMETER	VALUE
Applications	High-speed ATE power profiling; continuous source/sink; dynamic 80 V load/source tests.
Key Features	- 0–80 V / 0–25 A / 2,000 W
Technical Specifications	Model: N7974A
DC Output	Voltage: 0 to 80 V
Performance	Per APS N7900 datasheet 5991-2698 N7974A (80 V / 2 kW) column
Operational Notes	N6974A is the N6900 high-performance 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.

Specifications

Specifications

PARAMETER	VALUE
Model	N7974A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System Dynamic DC Power Supply
Family	N7900 Series APS (2 kW)
Alias	N7974A; N7974A APS

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 80 V
Current	0 to 25 A
Power	2,000 W

Current sink @10%: -2.5 A

Current sink @100% (with N7909A): -25 A

Performance

Per APS N7900 datasheet 5991-2698 N7974A (80 V / 2 kW) column

Transient recovery ~100 µs class (APS family)

Operational Notes

N6974A is the N6900 high-performance 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.