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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6970A Advanced Power System – DC Power Supply, 9 V, 200 A, 2000 W

Keysight / Agilent N6970A Advanced Power System DC Power Supply The N6970A is an APS N6900-series 2 kW system DC power supply: 0–9 V / 200 A. High-current ATE source with accurate V/I measurement; output disconnect relays (no polarity reversal on this model class). The N6970A is an APS N6900-series 2 kW system DC power supply: 0–9 V / 200 A. High-current ATE source with accurate V/I measurement; output disconnect relays (no polarity reversal on this model class).



MODEL

**Keysight / Agilent
N6970A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6970A

LISTING

<https://aumictechlabs.com/products/n6970a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6970A Advanced Power System is a 2000 W DC power supply engineered for high-demand automated test equipment (ATE) environments. It delivers programmable output from 0 to 9 V and 0 to 200 A, built on Keysight's VersaPower architecture to accelerate test throughput and characterize device power profiles with precision. Technical Specifications Electrical Performance Output: 0–9 V DC, 0–200 A (2000 W) Input: 240 VAC Residual ripple: Less than 9 mVpp Programming resolution: 14 bits (voltage/current) Measurement resolution: 18 bits (voltage/current) Voltage response time: 3 ms up, 3 ms down Transient settling time: 100 μ s Command processing: Less than 2 ms Programming speed: Up to 500 μ s, or up to 3 ms fast

up/down Measurement Capability Dual-channel voltage and current measurement with DMM-class accuracy. Power, peak power, watt-hour, and amp-hour measurements available. Two-Quadrant Operation Standard: 10% of rated current. With optional N7909A power dissipator unit, full two-quadrant (current sinking) operation enabled; single 2 kW supply achieves 50% current sinking capability. Parallel Operation Up to 10 kW with equal current sharing among paralleled units. Key Features 2U rack-mount form factor (426.9 mm W × 88.1 mm H × 633.2 mm D); 15.5 kg GPIB (IEEE-488), LAN (LXI-Core), and USB interfaces Option 301: Enhanced programming and measurement accuracy with dual current ranges Option 302: External data logging and programmable-rate voltage/current digitizers for inrush and dynamic profiling Option 303: Arbitrary waveforms, output list capability, 6× programming speed improvement Options 760/761: Output disconnect and polarity-reversal relays N7908A Black Box Recorder accessory for continuous parameter logging Typical Applications Device characterization, power profile validation, transient response testing, multi-rail load simulation, and manufacturing test where fast command execution and precise current control are critical. Compatibility & Integration Part of the N6900 Series VersaPower architecture. Parallels with other compatible supplies. Supports external data logging and arbitrary waveform generation via optional enhancements.

Features & description

From manufacturer datasheet

Features

• Voltage: 0 to 9 V • Current: 0 to 200 A • Power: 1800 W class / marketed as 2000 W APS 2 kW family member ($9\text{ V} \times 200\text{ A} = 1.8\text{ kW}$) • Current sink @10%: -20 A ; @100%: -200 A (with dissipater) • CV ripple rms: 1 mV ; CV p-p: 9 mV • Load regulation V: 0.5 mV ; I: 15 mA • V program/measure accuracy: $0.03\% + 1.5\text{ mV}$ • I program/measure accuracy: $0.1\% + 60\text{ mA}$ ($0.04\% + 30\text{ mA}$ with Opt 301) • Transient recovery: $100\text{ }\mu\text{s}$; settling band 150 mV class • Digitizer family: 18-bit up to 200 kS/s (Opt 302) • Relays: output disconnect only (no polarity reversal) per APS note for N6970A/N7970A • Interfaces: GPIB, USB, LAN (LXI)

Applications

• High-current low-voltage ATE to 200 A • Parallel high-current banks • Precision measurement of DUT current profiles with Opt 301/302

N6970A Characteristics / Specifications

PARAMETER	VALUE
Model	N6970A
Manufacturer	Keysight / Agilent
Instrument Type	Advanced Power System DC Power Supply
Alias	N6970A; Keysight N6970A
Voltage	0 to 9 V
Current	0 to 200 A
Power	1800 W class / marketed as 2000 W APS 2 kW family member (9 V × 200 A = 1.8 kW)
CV ripple rms	1 mV; CV p-p: 9 mV
Load regulation V	0.5 mVaccuracy: 0.03% + 1.5 mVaccuracy: 0.1% + 60 mA
Transient recovery	100 μs Notes Specs from Keysight APS N6900/N7900 Series data sheet (N6970A / 9 V 200 A column). Rated power is 1.8 kW electrical (9×200); catalog often lists 2 kW family. Confirm options on the unit.
Current sink @10%	–20 A; @100%: –200 A (with dissipater)
V program/measure accuracy	0.03% + 1.5 mV
I program/measure accuracy	0.1% + 60 mA (0.04% + 30 mA with Opt 301)
Digitizer family	18-bit up to 200 kS/s (Opt 302)
Relays	output disconnect only (no polarity reversal) per APS note for N6970A/N7970A
Interfaces	GPIB, USB, LAN (LXI)

N6970A Specifications

PARAMETER	VALUE
Applications	- High-current low-voltage ATE to 200 A
Key Features	- Voltage: 0 to 9 V
Technical Specifications	Model: N6970A

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	N6970A
Manufacturer	Keysight / Agilent
Instrument Type	Advanced Power System DC Power Supply
Alias	N6970A; Keysight N6970A

Specifications

PARAMETER	VALUE
Voltage	0–9 V
Current	0–200 A
Power	1800 W
CV ripple rms	1 mV

CV ripple p-p: 9 mV
Load regulation V: 0.5 mVaccuracy: 0.03% + 1.5 mVaccuracy: 0.1% + 60 mA
Transient recovery: 100 μs

Notes
Specs from Keysight APS N6900/N7900 Series data sheet (N6970A / 9 V 200 A column). Rated power is 1.8 kW electrical (9×200); catalog often lists 2 kW family. Confirm options on the unit.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.