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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6977A Advanced Power System – DC Power Supply

Manufacturer: Keysight Technologies (Agilent) Instrument Type: Advanced Power System DC Power Supply Current sink @100% (with N7909A): -12.5 A Output ripple & noise, programming/measurement accuracy: per APS N6900 datasheet 5991-2698 N6977A (160 V) column Instrument Type: Advanced Power System DC Power Supply Current sink @100% (with N7909A): -12.5 A Output ripple & noise, programming/measurement accuracy: per APS N6900 datasheet 5991-2698 N6977A (160 V) column Load regulation voltage class ~4 mV (160 V column family)



MODEL

**Keysight / Agilent
N6977A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6977A

LISTING

<https://aumictechlabs.com/products/n6977a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N6977A Advanced Power System is a single-channel DC power supply engineered for high-speed automated test equipment applications. Built on Keysight's VersaPower architecture, it delivers 0–160 VDC at 0–12.5 ADC with 2 kW maximum power, featuring transient settling times of 100 μ s and command processing under 2 ms. The N6977A achieves test speeds up to 100 $\times$ faster than standard power supplies while maintaining $\pm 0.03\%$ + 24 mV programming accuracy and $\pm 0.1\%$ + 4 mA measurement accuracy across 18-bit resolution. Output ripple and noise are specified at <9 mVpp with 3 mV rms performance. Technical Specifications Output

Voltage: 0–160 VDC Output Current: 0–12.5 ADC Maximum Power: 2000 W Input Power: 100–240 VAC Output Ripple & Noise: <9 mVpp; 3 mV rms Load Regulation: 4 mV, 0.8 mA Programming Accuracy: $\pm 0.03\%$ + 24 mV Measurement Accuracy: $\pm 0.1\%$ + 4 mA Programming Resolution: 14 bits Measurement Resolution: 18 bits Transient Settling Time: 100 μ s Command Processing Speed: <2 ms Response Time (V rise/fall): 3 ms / 3 ms Dimensions: 426.9 mm (W) $\times$ 88.1 mm (H) $\times$ 633.2 mm (D) Rack Space: 2U full-rack footprint Weight: 15.5 kg

Key Features Two-quadrant operation with standard 10% sinking capability; optional 100% sinking via N7909A Power Dissipator Unit Paralleling support for multiple N6900 units up to 10 kW with equal current sharing Dual voltage and current measurement with DMM-grade accuracy; power, peak power, watt-hour, and amp-hour measurement functions Programmable rise time and extended trigger options GPIB (IEEE-488), LAN (LXI-Core), and USB interfaces

Typical Applications Automated test equipment for device characterization, power profile validation, and high-throughput production testing requiring fast transient response and precision measurement.

Compatibility & Integration Supports APS Power Assistant, BenchVue, and 14585A Control and Analysis Software for setup, waveform generation, and gapless data acquisition. Optional N7908A Black-Box Recorder enables background logging of voltage, current, and power parameters with event tracking.

Features & description

From manufacturer datasheet

Features

- 0–160 V / 0–12.5 A / 2,000 W • Current sink: –1.25 A (10%); –12.5 A with N7909A • 2U full-rack; parallel to 10 kW • Dual V/I measurement; power / Wh / Ah measurements • Command processing < 2 ms class APS • Interfaces: GPIB, LAN (LXI-Core), USB

N6977A Characteristics / Specifications

PARAMETER	VALUE
Keysight (Agilent) N6977A Advanced Power System	DC Power Supply, 160 V, 12.5 A, 2000 W Overview The Keysight N6977A is an N6900 Series Advanced Power System (APS) DC power supply rated 0–160 V / 0–12.5 A / 2 kW in a 2U footprint. VersaPower architecture targets high-performance ATE. Standalone two-quadrant sink up to 10% of rated current (–1.25 A); with N7909A power dissipater, full 100% sink (–12.5 A). Built-in paralleling to 10 kW; GPIB/LAN (LXI)/USB.
Model	N6977A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6977A; N6977A APS DC Output
Voltage	0 to 160 V
Current	0 to 12.5 A
Power	2,000 W
Transient / programming speeds	APS family (up/down programming typically ~0.5–3 ms class) Mechanical / I/O
Form factor	2U; approx. 426.9 × 88.1 × 633.2 mm; ~15.5 kg (typical published)
Interfaces	GPIB, LAN (LXI-Core), USB Operational Notes N7977A is the N7900 dynamic twin (same 160 V / 12.5 A). Prefer Keysight APS N6900/N7900 datasheet 5991-2698.
Current sink	–1.25 A (10%); –12.5 A with N7909A

N6977A Specifications

PARAMETER	VALUE
Applications	High-voltage ATE sourcing; continuous source/sink for power-storage tests; paralleled multi-kW APS banks.
Key Features	- 0–160 V / 0–12.5 A / 2,000 W
Technical Specifications	Model: N6977A
DC Output	Voltage: 0 to 160 V
Performance	Output ripple & noise, programming/measurement accuracy: per APS N6900 datasheet 5991-2698 N6977A (160 V) column
Mechanical / I/O	Form factor: 2U; approx. 426.9 × 88.1 × 633.2 mm; ~15.5 kg (typical published)
Operational Notes	N7977A is the N7900 dynamic twin (same 160 V / 12.5 A). Prefer Keysight APS N6900/N7900 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 two-quadrant sink up to 10% of rated current (–1.25 A); with N7909A power dissipater, full 100% sink (–12.5 A). Built-in paralleling to 10 kW; GPIB/LAN (LXI)/USB.

Applications

High-voltage ATE sourcing; continuous source/sink for power-storage tests; paralleled multi-kW APS banks.

Key Features

- 0–160 V / 0–12.5 A / 2,000 W
- Current sink: –1.25 A (10%); –12.5 A with N7909A
- 2U full-rack; parallel to 10 kW
- Dual V/I measurement; power / Wh / Ah measurements
- Command processing < 2 ms class APS
- Interfaces: GPIB, LAN (LXI-Core), USB

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N6977A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Advanced Power System DC Power Supply
Family	N6900 Series APS (2 kW)
Alias	N6977A; N6977A APS

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 160 V
Current	0 to 12.5 A
Power	2,000 W

Current sink @10%: –1.25 A
Current sink @100% (with N7909A): –12.5 A

Performance

Output ripple & noise, programming/measurement accuracy: per APS N6900 datasheet 5991-2698 N6977A (160 V) column

Load regulation voltage class ~4 mV (160 V column family)

Transient / programming speeds: APS family (up/down programming typically ~0.5–3 ms class)

Mechanical / I/O

Form factor: 2U; approx. 426.9 × 88.1 × 633.2 mm; ~15.5 kg (typical published)

Interfaces: GPIB, LAN (LXI-Core), USB

Operational Notes

N7977A is the N7900 dynamic twin (same 160 V / 12.5 A). Prefer Keysight APS N6900/N7900 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

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

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.