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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N6953A Advanced Power System - DC Power Supply

Agilent Keysight N6953A Advanced Power System DC Power Supply 0 to 60 V 16.7 A 1 kW The Agilent/Keysight N6953A is an N6900 Series Advanced Power System DC power supply. OEM APS datasheets rate 0 to 60 V, 16.7 A, and 1 kW with continuous two-quadrant sink capability to 10 percent of rating standalone. ATE power testing, battery and power-storage source/sink characterization, and high-throughput manufacturing DC stimulus. VersaPower architecture Advanced Power System DC supply The Agilent/Keysight N6953A is an N6900 Series Advanced Power System DC power supply. OEM APS datasheets rate 0 to 60 V, 16.7 A, and 1 kW with continuous two-quadrant sink capability to 10 percent of rating standalone. ATE power testing, battery and power-storage source/sink characterization, and high-throughput manufacturing DC stimulus. VersaPower architecture Advanced Power System DC supply Two quadrant sourcing and sinking capability



MODEL

**Agilent / Keysight
N6953A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6953A

LISTING

<https://aumictechlabs.com/products/n6953a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6953A is a, 600W, single-output DC power supply designed for demanding applications. Featuring a voltage range of 0 to 60V and a current range of 0 to 10A, this power

supply delivers exceptional accuracy and resolution. Its fast output speed minimizes test time, while its set of features, including advanced programming capabilities and built-in measurements, simplifies system integration. Ideal for automated test equipment (ATE) and burn-in systems.

N6953A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Advanced Power System DC power supply
Series Family	Keysight N6900 APS
Voltage Range	0 to 60 V
Current Maximum	16.7 A
Rated Power	1 kW
Current Sink At 10 Percent Rating	minus 1.67 A
Current Sink At 100 Percent With Dissipater	minus 16.7 A with N7909A dissipater
Output Ripple Noise CV RMS	1 mV
Output Ripple Noise CV Peak Peak	9 mV
Voltage Load Regulation	2 mV
Current Load Regulation	1 mA
Voltage Programming Measurement Accuracy	0.03 percent plus 9 mV
Rack Footprint Class	1 U full rack
Two Quadrant Operation	continuous source and sink transitions
Command Processing Speed Class	less than 2 ms class OEM APS literature
Up Down Programming Speed Class	as fast as 500 us class OEM APS literature
Parallel Capability Class	built in paralleling up to 10 kW class family literature
Remote Interfaces	LAN USB GPIB
Architecture	VersaPower
Black Box Recorder	built in event recording capability cited in APS overview
Sequencing	multi unit sequencing including with N6700 family

N6953A Specifications

PARAMETER	VALUE
Two quadrant sourcing and sinking capability	Optional accuracy package Option 301 and digitizer Option 302
Technical Specifications	Instrument Type: Advanced Power System DC power supply
Notes	Numeric rows from Keysight Advanced Power System N6900 Series datasheet model column N6953A.

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	
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Two Quadrant Operation	continuous source and sink transitions
Command Processing Speed Class	less than 2 ms class OEM APS literature
Up Down Programming Speed Class	as fast as 500 us class OEM APS literature
Optional Accuracy Package: Option 301 higher resolution and second current measurement range	
Optional Measurement Enhancements: Option 302 external logging and digitizers	
Optional Source Speed Enhancements: Option 303 arb list and faster programming	
Optional Disconnect Relays: Options 760 and 761	
Specifications	
PARAMETER	VALUE
Parallel Capability Class	built in paralleling up to 10 kW class family literature
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Architecture	VersaPower
Black Box Recorder	built in event recording capability cited in APS overview

PARAMETER

VALUE

Sequencing

multi unit sequencing including with N6700 family

Notes

Numeric rows from Keysight Advanced Power System N6900 Series datasheet model column N6953A.

Ordering Information

OPTION	DESCRIPTION
Option 301	and digitizer Option 302
Option 302	external logging and digitizers
Option 303	arb list and faster programming

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
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<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.