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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6752A DC Power Supply, 50 V, 10 A, 100 W, Programmable

Keysight / Agilent N6752A High-Performance Autoranging DC Power Module The N6752A is an N6750-series high-performance autoranging DC power module for N6700/N6705 mainframes: 0–50 V / 0–10 A / 100 W. Low noise and fast programming; optional high-speed digitizer extension. The N6752A is an N6750-series high-performance autoranging DC power module for N6700/N6705 mainframes: 0–50 V / 0–10 A / 100 W. Low noise and fast programming; optional high-speed digitizer extension.



MODEL

**Keysight / Agilent
N6752A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6752A

LISTING

<https://aumictechlabs.com/products/n6752a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N6752A is a 100 W autoranging DC power module engineered for automated test equipment (ATE) systems and benchtop measurement applications. Operating from 0 to 50 VDC and 0 to 10 A, this single-channel output supply delivers full 100 W power across its operating range, with power derating to 85 W between 8.33 A and 10 A. The module integrates into the N6700 Low-Profile Modular Power System or N6705 DC Power Analyzer mainframe, supporting up to four modules per 1U rack-height chassis. Technical Specifications Electrical Performance Output voltage: 0 to 50 VDC Output current: 0 to 10 A Maximum output power: 100 W Voltage programming accuracy: 0.06% + 19 mV Current programming accuracy: 0.1% + 20 mA Voltage

measurement accuracy: 0.05% + 20 mV Current measurement accuracy: 0.1% + 4 mA Ripple and noise (20 Hz to 20 MHz): 350 μ V RMS / 4.5 mV peak-to-peak (constant voltage mode) Ripple and noise (constant current): 2 mA RMS Fast transient response: <100 μ s Input AC supply: 100 V to 240 V; 240 V operating

Key Features Autoranging topology for optimized current delivery at any voltage setpoint within power envelope Programming speeds 10 to 50 $\times$ faster than conventional programmable supplies Low output noise: 350 μ V RMS enables sensitive analog circuit testing Optional high-speed digitizer (Option 054) with 97.656 kHz sample rate and 524,288 measurement points for transient analysis Optional output list mode: 512 steps, 262 second maximum dwell time, 256 repetitions or infinite loop GPIB, LAN, USB, and LXI Class C connectivity SCPI-compliant command structure Hybrid AC-DC power factor correction

Typical Applications Automated test systems requiring precise, fast-switching DC power Component and module characterization under dynamic load conditions Power supply testing and validation Pulse and transient response measurement (with digitizer option)

Compatibility & Integration The N6752A operates exclusively as a plug-in module within Keysight N6700 or N6705 mainframes. It supports standard remote programming via GPIB, Ethernet (LAN), and USB interfaces.

Features & description

From manufacturer datasheet

Features

• Voltage: 0 to 50 V • Current: 0 to 10 A (derated 1%/°C above 40 °C) • Power: 100 W • Autoranging output • CV ripple p-p (20 Hz–20 MHz): 4.5 mV • CV ripple rms: 0.35 mV • CC rms noise: 2 mA class • Load regulation V: 2 mV; I: 2 mA • Source regulation V: 1 mV; I: 1 mA • Programming accuracy (23±5 °C, 30 min warm-up): V 0.06% + 19 mV; I 0.1% + 20 mA • Measurement accuracy: V 0.05% + 20 mV; I 0.1% + 4 mA • Load transient recovery: <100 µs to within ±75 mV (Opt 761 settling ±125 mV) • Programming speed: up to 10–50× faster than typical programmable supplies (family claim) • Form: 1 mainframe slot module

Applications

• Modular ATE power in N6700 MPS / N6705 DC Power Analyzer • Autoranging coverage of multiple traditional supply operating points • Fast transient / pulse DUT characterization with digitizer option

N6752A Characteristics / Specifications

PARAMETER	VALUE
Model	N6752A
Manufacturer	Keysight / Agilent
Instrument Type	High-Performance Autoranging DC Power Module
Alias	N6752A; Agilent N6752A; Keysight N6752A
Voltage	0 to 50 V
Current	0 to 10 A (derated 1%/°C above 40 °C)
Power	100 W
CV ripple rms	0.35 mVVprogram accuracy: 0.06% + 19 mVImeasure accuracy: 0.1% + 20 mAVmeasure accuracy: 0.05% + 20 mVImeasure accuracy: 0.1% + 4 mA
Transient recovery	<100 μ s Notes Specs from Keysight N6700 Series Specifications Guide (N6751A/N6752A column). Confirm mainframe and relay options on the unit.
CV ripple p-p (20 Hz–20 MHz)	4.5 mV
CC rms noise	2 mA class
Load regulation V	2 mV; I: 2 mA
Source regulation V	1 mV; I: 1 mA
Programming accuracy (23 $\pm$ 5 °C, 30 min warm-up)	V 0.06% + 19 mV; I 0.1% + 20 mA
Measurement accuracy	V 0.05% + 20 mV; I 0.1% + 4 mA
Load transient recovery	<100 μ s to within $\pm$ 75 mV (Opt 761 settling $\pm$ 125 mV)
Programming speed	up to 10–50 $\times$ faster than typical programmable supplies (family claim)
Form	1 mainframe slot module

N6752A Specifications

PARAMETER	VALUE
Applications	- Modular ATE power in N6700 MPS / N6705 DC Power Analyzer
Key Features	- Voltage: 0 to 50 V
Technical Specifications	Model: N6752A
Notes	Specs from Keysight N6700 Series Specifications Guide (N6751A/N6752A column). Confirm mainframe and relay options on the unit.

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 Autoranging DC Power Module

Overview

The N6752A is an N6750-series high-performance autoranging DC power module for N6700/N6705 mainframes: 0–50 V / 0–10 A / 100 W. Low noise and fast programming; optional high-speed digitizer extension.

Applications

- Modular ATE power in N6700 MPS / N6705 DC Power Analyzer
- Autoranging coverage of multiple traditional supply operating points
- Fast transient / pulse DUT characterization with digitizer option

Key Features

- Voltage: 0 to 50 V
- Current: 0 to 10 A (derated 1%/°C above 40 °C)
- Power: 100 W
- Autoranging output
- CV ripple p-p (20 Hz–20 MHz): 4.5 mV
- CV ripple rms: 0.35 mV
- CC rms noise: 2 mA class
- Load regulation V: 2 mV; I: 2 mA
- Source regulation V: 1 mV; I: 1 mA
- Programming accuracy (23±5 °C, 30 min warm-up): V 0.06% + 19 mV; I 0.1% + 20 mA
- Measurement accuracy: V 0.05% + 20 mV; I 0.1% + 4 mA
- Load transient recovery: <100 µs to within ±75 mV (Opt 761 settling ±125 mV)
- Programming speed: up to 10–50× faster than typical programmable supplies (family claim)
- Form: 1 mainframe slot module

Technical Specifications

Specifications

PARAMETER	VALUE
CV ripple rms	0.35 mV
V program accuracy	0.06% + 19 mV
I program accuracy	0.1% + 20 mA
V measure accuracy	0.05% + 20 mV
I measure accuracy	0.1% + 4 mA
Transient recovery	<100 µs

Technical Specifications

PARAMETER	VALUE
Model	N6752A
Manufacturer	Keysight / Agilent
Instrument Type	High-Performance Autoranging DC Power Module
Alias	N6752A; Agilent N6752A; Keysight N6752A

Specifications

PARAMETER	VALUE
Voltage	0–50 V
Current	0–10 A
Power	100 W

CV ripple p-p: 4.5 mV
CV ripple rms: 0.35 mV
program accuracy: 0.06% + 19 mV
program accuracy: 0.1% + 20 mV
measure accuracy: 0.05% + 20 mV
measure accuracy: 0.1% + 4 mA
Transient recovery: <100 μ s

Notes
Specs from Keysight N6700 Series Specifications Guide (N6751A/N6752A column). Confirm mainframe and relay 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>

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.