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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N6754A High Performance DC Power Module, 0-60V/0 - 20A, 300W

Agilent Keysight N6754A High-Performance Autoranging DC Power Module The Agilent/Keysight N6754A is a high-performance autoranging DC power module for N6700/N6705 mainframes rated 60 V / 20 A / 300 W. OEM datasheets list low ripple noise and autoranging output in a double-wide (2-slot) form factor. ATE and R&D rails needing autoranging flexibility at 300 W with high-performance noise and accuracy. Low ripple and noise versus basic modules The Agilent/Keysight N6754A is a high-performance autoranging DC power module for N6700/N6705 mainframes rated 60 V / 20 A / 300 W. OEM datasheets list low ripple noise and autoranging output in a double-wide (2-slot) form factor. ATE and R&D rails needing autoranging flexibility at 300 W with high-performance noise and accuracy. Low ripple and noise versus basic modules Optional output disconnect relays Option 761



MODEL

**Agilent / Keysight
N6754A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6754A

LISTING

<https://aumictechlabs.com/products/n6754a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6754A is a precision DC power module, part of the N6700 modular power system. It delivers exceptional performance with its low noise, high accuracy, and fast transient response. This module works with automated test equipment (ATE) and research applications

where precise and reliable power is critical. The N6754A offers programmable voltage and current, comprehensive protection features, and easy integration into test systems. It ensures stable and accurate power delivery, making it suitable for sensitive electronic components and demanding test scenarios.

N6754A Characteristics / Specifications

PARAMETER	VALUE
Model	N6754A
DC Output Voltage	0 to 60 V
DC Output Current	0 to 20 A
DC Output Power	300 W
Ripple Noise Voltage Peak To Peak	6 mV
Ripple Noise Voltage RMS	1 mV
Voltage Programming Accuracy	0.06 percent + 25 mV
Current Programming Accuracy	0.1 percent + 12 mA
Voltage Measurement Accuracy	0.05 percent + 25 mV
Current Measurement Accuracy	0.1 percent + 8 mA
Mainframe Compatibility	N6700 and N6705 series
Slot Occupancy	2 of 4 slots
Autoranging Output	Yes
Arbitrary Waveform Generation	Yes
Series Family	Keysight N675x high-performance modules
Module Power Class	300 W high-performance
Sibling N6751A	50 V / 5 A / 50 W single-slot
Sibling N6752A	50 V / 10 A / 100 W single-slot
PARD Bandwidth	20 Hz to 20 MHz
Programming Accuracy Temperature	23 C plus or minus 5 C after 30 minute warm-up
Current Derating Above 40 C	1 percent perCMeasurement Data Points Default: 1024 class family
Output Isolation	floating isolated from chassis ground class family
Compatible Mainframes	N6700B N6701A N6702A N6705A N6705B N6705C
Power Management	mainframe allocates power when module sum exceeds rating
Digital IO Triggers	supported via mainframe class family

PARAMETER	VALUE
Series Sibling Single Slot	N6751A N6752A
Bandwidth	20 Hz to 20 MHz

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 Agilent/Keysight N6754A is a high-performance autoranging DC power module for N6700/N6705 mainframes rated 60 V / 20 A / 300 W. OEM datasheets list low ripple noise and autoranging output in a double-wide (2-slot) form factor.

Applications

ATE and R&D rails needing autoranging flexibility at 300 W with high-performance noise and accuracy.

Key Features

High-performance autoranging DC module
Double-wide module occupies 2 slots
Arbitrary waveform generation capable
Low ripple and noise versus basic modules
Optional output disconnect relays Option 761

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	N6754A
DC Output Voltage	0 to 60 V
DC Output Current	0 to 20 A
DC Output Power	300 W
Ripple Noise Voltage Peak To Peak	6 mV
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Voltage Programming Accuracy	0.06 percent + 25 mV
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Current Measurement Accuracy	0.1 percent + 8 mA
Mainframe Compatibility	N6700 and N6705 series
Slot Occupancy	2 of 4 slots
Autoranging Output	Yes
Arbitrary Waveform Generation	Yes
Series Family	Keysight N675x high-performance modules
Module Power Class	300 W high-performance
Sibling N6751A	50 V / 5 A / 50 W single-slot
Sibling N6752A	50 V / 10 A / 100 W single-slot

PARAMETER	VALUE
PARD Bandwidth	20 Hz to 20 MHz
Programming Accuracy Temperature	23 C plus or minus 5 C after 30 minute warm-up
Current Derating Above 40 C	1 percent perCMeasurement Data Points Default: 1024 class family
Output Isolation	floating isolated from chassis ground class family
Compatible Mainframes	N6700B N6701A N6702A N6705A N6705B N6705C
Power Management	mainframe allocates power when module sum exceeds rating
Digital IO Triggers	supported via mainframe class family
Series Sibling Single Slot	N6751A N6752A

Notes

From Keysight N6700 Modular Power System Family Data Sheet row for N6754A. Double-wide modules reduce available slots for other modules.

Ordering Information

OPTION	DESCRIPTION
Option 761	Technical Specifications

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

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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.