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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N6766A Precision DC Power Module

Agilent Keysight N6766A Precision DC Power Module The Agilent/Keysight N6766A is a precision DC power module for N6700/N6705 mainframes rated 60 V / 17 A / 500 W. OEM datasheets list multiple output and measurement ranges with best accuracy figures shown for the highest range, plus low-current measurement capability on N6761A/N6762A. Precision bias and characterization rails needing tighter programming and readback accuracy than basic N673x/N674x modules. Optional 200 uA measurement range on N6761A/N6762A Option 2UA

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MODEL

**Agilent / Keysight
N6766A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6766A

LISTING

<https://aumictechlabs.com/products/n6766a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6766A is a DC power module, part of the N6700 modular power system family. This module delivers precision power with exceptional accuracy and low noise, making it suitable for sensitive electronic testing. It features a fast transient response to handle dynamic loads, programmable voltage and current, and comprehensive protection features. The N6766A is used in automated test equipment (ATE), research and development, and manufacturing test applications where reliable and precise power is crucial.

N6766A Characteristics / Specifications

PARAMETER	VALUE
Model	N6766A
DC Output Voltage Highest Range	0 to 60 V
DC Output Current Highest Range	0 to 17 A
DC Output Power	500 W
Ripple Noise Voltage Peak To Peak Highest Range	6 mV
Ripple Noise Voltage RMS Highest Range	1 mV
Voltage Programming Accuracy Highest Range	0.03 percent + 12 mV
Current Programming Accuracy Highest Range	0.1 percent + 15 mA
Voltage Measurement Accuracy Highest Range	0.03 percent + 25 mV
Current Measurement Accuracy Highest Range	0.1 percent + 5 mA
Mainframe Compatibility	N6700 and N6705 series
Slot Occupancy	2 of 4 slots
Voltage Or Current Turn On Priority	N6761A and N6762A
Low Voltage And Current Output Ranges	N6761A and N6762A
Series Family	Keysight N676x precision modules
Autoranging Output	N6761A and N6762A Yes
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 perCMultiple Ranges Note: OEM table shows highest-range values
Compatible Mainframes	N6700B N6701A N6702A N6705A N6705B N6705C
Output Isolation	floating isolated from chassis ground class family
Measurement Data Points Default	1024 class family

PARAMETER	VALUE
Power Management	mainframe allocates power when module sum exceeds rating
Bandwidth	20 Hz to 20 MHz

N6766A Specifications

PARAMETER	VALUE
Agilent Keysight N6766A Precision DC Power Module	Overview
Applications	Precision bias and characterization rails needing tighter programming and readback accuracy than basic N673x/N674x modules.
Precision DC power module	Slot occupancy 2 of 4
Arbitrary waveform generation capable	Optional 200 uA measurement range on N6761A/N6762A Option 2UA
Technical Specifications	Model: N6766A

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	N6766A
DC Output Voltage Highest Range	0 to 60 V
DC Output Current Highest Range	0 to 17 A
DC Output Power	500 W
Ripple Noise Voltage Peak To Peak Highest Range: 6 mV	
Specifications	
PARAMETER	VALUE
Ripple Noise Voltage RMS Highest Range	1 mV
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Series Family	Keysight N676x precision modules
Autorangeing Output	N6761A and N6762A Yes
PARD Bandwidth	20 Hz to 20 MHz
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Current Derating Above 40 C	1 percent perCMultiple Ranges Note: OEM table shows highest-range values
Compatible Mainframes	N6700B N6701A N6702A N6705A N6705B N6705C
Output Isolation	floating isolated from chassis ground class family

Optional Output Disconnect Relays: Option 761

Optional Polarity Reversal Relays: Option 760 where available

Measurement Data Points Default: 1024 class family

Power Management: mainframe allocates power when module sum exceeds rating

Notes

From Keysight N6700 Modular Power System Family Data Sheet precision module row for N6766A. Values shown are for the highest range; lower ranges have tighter offsets per Specifications Guide.

Ordering Information

OPTION	DESCRIPTION
Option 761	Optional Polarity Reversal Relays: Option 760 where available

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.