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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N6765A Precision DC Power Module

Agilent Keysight N6765A Precision DC Power Module The Agilent/Keysight N6765A is a precision DC power module for N6700/N6705 mainframes rated 20 V / 50 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	CALIBRATION
Agilent / Keysight N6765A	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
N6765A	https://aumictechlabs.com/products/n6765a-3/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent N6765A is a DC power module offering 500W of power for the N6700 Modular Power System. It has precise voltage and current control, fast programming, and comprehensive

protection features. Ideal for ATE and R&D, it ensures accurate and reliable power delivery for demanding applications.

N6765A Characteristics / Specifications

PARAMETER	VALUE
Model	N6765A
DC Output Voltage Highest Range	0 to 20 V
DC Output Current Highest Range	0 to 50 A
DC Output Power	500 W
Ripple Noise Voltage Peak To Peak Highest Range	5 mV
Ripple Noise Voltage RMS Highest Range	1 mV
Voltage Programming Accuracy Highest Range	0.03 percent + 5 mV
Current Programming Accuracy Highest Range	0.1 percent + 15 mA
Voltage Measurement Accuracy Highest Range	0.03 percent + 10 mV
Current Measurement Accuracy Highest Range	0.1 percent + 10 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

N6765A Specifications

PARAMETER	VALUE
Agilent Keysight N6765A 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: N6765A

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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PARAMETER	VALUE
Model	N6765A
DC Output Voltage Highest Range	0 to 20 V
DC Output Current Highest Range	0 to 50 A
DC Output Power	500 W
Ripple Noise Voltage Peak To Peak Highest Range: 5 mV	
Specifications	
PARAMETER	VALUE
Ripple Noise Voltage RMS Highest Range	1 mV
Voltage Programming Accuracy Highest Range	0.03 percent + 5 mV
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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

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 N6765A. 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

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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.