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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Keysight N6791A Electronic Load Module, 60 V, 20 A, 100 W

Agilent Keysight N6791A Electronic Load Module 60 V 20 A 100 W The Agilent/Keysight N6791A is an N6790 Series DC electronic load module for N6700/N6705 mainframes rated 0 to 60 V / 0 to 20 A / 100 W. OEM N6700 family datasheets list CV/CC/CR/CP priority, arbitrary waveforms, and simultaneous V/I measurement. Power-supply testing, battery discharge, and R&D loading inside an N6700 or N6705 modular mainframe. Constant voltage current resistance and power priority modes The Agilent/Keysight N6791A is an N6790 Series DC electronic load module for N6700/N6705 mainframes rated 0 to 60 V / 0 to 20 A / 100 W. OEM N6700 family datasheets list CV/CC/CR/CP priority, arbitrary waveforms, and simultaneous V/I measurement. Power-supply testing, battery discharge, and R&D loading inside an N6700 or N6705 modular mainframe. Constant voltage current resistance and power priority modes Arbitrary waveform generation on the load input



MODEL

**Agilent / Keysight
N6791A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6791A

LISTING

<https://aumictechlabs.com/products/n6791a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N6791A is a, programmable DC power module designed for automated test equipment (ATE) systems and research and development applications. This module provides a stable and precise DC power source with excellent regulation and fast transient response. Key

features include programmable voltage and current, overvoltage and overcurrent protection, and remote sensing capabilities. It is suitable for testing power-sensitive devices and ensuring reliable power delivery in demanding applications.

N6791A Characteristics / Specifications

PARAMETER	VALUE
Model	N6791A
Instrument Type	DC electronic load module
Input Voltage	0 to 60 V
Input Current	0 to 20 A
Maximum Power At 40 C	100 W
Specified Current At 1.6 V	20 A
Specified Current At 1 V	12.5 A
Specified Current At 0.5 V	6.25 A
Specified Current At 0.1 V	1.25 A
Current Programming Accuracy High Range	0.04 percent plus 2.6 mA on 20 A range
Current Programming Accuracy Low Range	0.04 percent plus 0.46 mA on 2 A range
Voltage Programming Accuracy	0.03 percent plus 7.2 mV on 60 V range
Resistance Programming High Range	plus or minus (0.1 percent plus 0.0014) S on 8 kOhm range
Resistance Programming Medium Range	plus or minus (0.1 percent plus 0.014) S on 100 Ohm range
Resistance Programming Low Range	plus or minus (0.1 percent plus 0.38) S on 3 Ohm range
Power Programming Accuracy High Range	0.06 percent plus 180 mW on 100 W range
Power Programming Accuracy Low Range	0.06 percent plus 30 mW on 10 W range
Current Measurement Accuracy High Range	0.04 percent plus 2.4 mA on 20 A range
Current Measurement Accuracy Low Range	0.04 percent plus 0.40 mA on 2 A range
Voltage Measurement Accuracy	0.03 percent plus 7.2 mV on 60 V range
Power Measurement Accuracy High Range	0.06 percent plus 160 mW on 100 W range

PARAMETER	VALUE
Power Measurement Accuracy Low Range	0.06 percent plus 25 mW on 10 W range
Current Input Ranges	2
Voltage Input Ranges	1
Resistance Input Ranges	3
Power Measurement Ranges	3
Mainframe Compatibility	N6700C N6701C N6702C and N6705 family
Slot Occupancy	1 of 4 slots
Series Family	Keysight N6790 electronic load modules

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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Notes
From Keysight N6700 Modular Power System Family Data Sheet DC Electronic Load Module Key Performance Specifications row for N6791A.

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.