


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8758A System DC Power Supply 80V 65A

Agilent Keysight N8758A System DC Power Supply The Keysight N8758A is an N8700 Series 2U system DC power supply rated 80 V / 65 A / 5200 W. OEM N8700 Series datasheets list built-in V/I measurement, GPIB/LAN/USB, and OVP/OCP/OTP protection for high-power ATE racks. High-power ATE, burn-in, and system DC bias needing multi-kilowatt single-output programmable power. CV Ripple Noise Peak To Peak: 100 mV (20 MHz) The Keysight N8758A is an N8700 Series 2U system DC power supply rated 80 V / 65 A / 5200 W. OEM N8700 Series datasheets list built-in V/I measurement, GPIB/LAN/USB, and OVP/OCP/OTP protection for high-power ATE racks. High-power ATE, burn-in, and system DC bias needing multi-kilowatt single-output programmable power. CV Ripple Noise Peak To Peak: 100 mV (20 MHz) CV Ripple Noise RMS: 15 mV (5 Hz to 1 MHz)



MODEL

**Agilent / Keysight
N8758A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8758A

LISTING

<https://aumictechlabs.com/products/n8758a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N8758A is a high-power, single-output DC power supply designed for automated test equipment (ATE) and demanding R&D applications. This 5200W unit delivers 80V at 65A in a compact 2U rackmount form factor, optimizing space in test racks with its front-to-back airflow. It has programmable voltage and current control with an analog/resistance interface, and features

extensive protection mechanisms including overcurrent, overvoltage, and overtemperature protection. Connectivity is provided via standard GPIB, LAN (LXI-Core compliant), and USB interfaces, facilitating integration into automated test systems. The N8758A also supports parallel and series configurations for increased output current or voltage. Technical Specifications DC Output Ratings: Voltage: 80 V Current: 65 A Power: 5,200 W Programming Accuracy: Voltage: 0.025% + 60 mV Current: 0.1% + 195 mA Output Ripple and Noise: CV peak-to-peak: 100 mV CV RMS: 15 mV Electrical: AC Input Options: Flexible options including 208 V, 400 V, and 230 V. Note: AC input voltage hardware is permanently installed at the factory and cannot be changed after delivery. Interfaces: Standard: GPIB, LAN (LXI-Core compliant), USB Remote Sensing: Available to compensate for voltage drop in load leads, particularly effective in constant voltage mode. Physical: Form Factor: Compact 2U rackmount package Airflow: Front-to-back, simplifying rack mounting and requiring no additional space above or below the unit. Device Protection: Overcurrent protection Overvoltage protection Overtemperature protection Configuration: Parallel Connection: Up to 4 identical units can be connected in parallel for higher output current. Series Connection: Up to 2 identical units can be connected in series for higher output voltage. Included Accessories: Strain relief assembly AC input cover DB25 subminiature connector Hardware for bus bar connection Safety shield assembly Certificate of calibration Compatibility: Designed for integration into Automated Test Equipment (ATE) racks. Compatible with Keysight BenchVue Basic software for instrument control. Why Choose Aumictech for Keysight N8758A? At Aumictech, we specialize in supplying high-end DC power supply equipment. Whether you need precise power delivery for complex R&D projects, reliable performance for manufacturing test, or seamless integration into your ATE systems, our team ensures the Keysight N8758A delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Built-in voltage and current measurement

OVP OCP OTP PFP UVL protection class Analog programming and monitoring Technical Specifications
Model: N8758A DC Output Voltage: 80 V DC Output Current: 65 A DC Output Power: 5200 W CV Ripple
Noise Peak To Peak: 100 mV (20 MHz) CV Ripple Noise RMS: 15 mV (5 Hz to 1 MHz) CV Load
Regulation: 17 mV CC Load Regulation: 65 mA CV Line Regulation: 8 mV CC Line Regulation: 32.5 mA
Programming Accuracy Voltage: 0.025 percent + 60 mV Programming Accuracy Current: 0.1 percent +
195 mA Measurement Accuracy Voltage: 0.025 percent + 100 mV Measurement Accuracy Current: 0.1
percent + 195 mA Load Transient Recovery Time: less than 1 ms Up Programming Response Time: 50
ms Down Programming Full Load: 100 ms Down Programming No Load: 1200 ms Command Response
Time Typical: 100 ms Form Factor: 2U 19 inch class Remote Interfaces: GPIB LAN USB Series Family:
Keysight N8700 Series Brand Lineage: Agilent / Keysight Notes From Keysight N8700 Series System
DC Power Supplies data sheet model column for N8758A.

N8758A Characteristics / Specifications

PARAMETER	VALUE
Model	N8758A
DC Output Voltage	80 V
DC Output Current	65 A
DC Output Power	5200 W
CV Ripple Noise Peak To Peak	100 mV (20 MHz)
CV Ripple Noise RMS	15 mV (5 Hz to 1 MHz)
CV Load Regulation	17 mV
CC Load Regulation	65 mA
CV Line Regulation	8 mV
CC Line Regulation	32.5 mA
Programming Accuracy Voltage	0.025 percent + 60 mV
Programming Accuracy Current	0.1 percent + 195 mA
Measurement Accuracy Voltage	0.025 percent + 100 mV
Measurement Accuracy Current	0.1 percent + 195 mA
Load Transient Recovery Time	less than 1 ms
Up Programming Response Time	50 ms
Down Programming Full Load	100 ms
Down Programming No Load	1200 ms
Command Response Time Typical	100 ms
Form Factor	2U 19 inch class
Remote Interfaces	GPIB LAN USB
Series Family	Keysight N8700 Series
Brand Lineage	Agilent / Keysight

N8758A Specifications

PARAMETER	VALUE
Agilent Keysight N8758A System DC Power Supply	Overview
Key Features	2U high power N8700 platform
OVP OCP OTP PFP UVL protection class	Analog programming and monitoring
Technical Specifications	Model: N8758A
Notes	From Keysight N8700 Series System DC Power Supplies data sheet model column for N8758A.

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	N8758A
DC Output Voltage	80 V
DC Output Current	65 A
DC Output Power	5200 W
CV Ripple Noise Peak To Peak	100 mV (20 MHz)
CV Ripple Noise RMS	15 mV (5 Hz to 1 MHz)
CV Load Regulation	17 mV
CC Load Regulation	65 mA
CV Line Regulation	8 mV
CC Line Regulation	32.5 mA
Programming Accuracy Voltage	0.025 percent + 60 mV
Programming Accuracy Current	0.1 percent + 195 mA
Measurement Accuracy Voltage	0.025 percent + 100 mV
Measurement Accuracy Current	0.1 percent + 195 mA
Load Transient Recovery Time	less than 1 ms
Up Programming Response Time	50 ms
Down Programming Full Load	100 ms
Down Programming No Load	1200 ms
Command Response Time Typical	100 ms
Form Factor	2U 19 inch class
Remote Interfaces	GPIB LAN USB
Series Family	Keysight N8700 Series
Brand Lineage	Agilent / Keysight
Notes	
From Keysight N8700 Series System DC Power Supplies data sheet model column for N8758A.	

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
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.