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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N8754A System DC Power Supply 20V 250A

Agilent Keysight N8754A System DC Power Supply 20 V 250 A 5000 W The Agilent/Keysight N8754A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 20 V, 250 A, and 5000 W with built-in measurement and LXI ClassCremote I/O. High-power ATE DC sourcing, burn-in racks, and power-device validation needing up to about 5 kW in 2U. Compact 2U 19 inch system DC supply package The Agilent/Keysight N8754A is a 5 kW class N8700 Series system DC power supply. OEM datasheet ratings are 20 V, 250 A, and 5000 W with built-in measurement and LXI ClassCremote I/O. High-power ATE DC sourcing, burn-in racks, and power-device validation needing up to about 5 kW in 2U. Compact 2U 19 inch system DC supply package LAN USB and GPIB interfaces standard LXI ClassCOvervoltage overcurrent and overtemperature protection with UVL window



MODEL

**Agilent / Keysight
N8754A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8754A

LISTING

<https://aumictechlabs.com/products/n8754a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8754A is a 5000W, single-output DC power supply designed for demanding applications requiring stable and reliable power. Its compact 2U package allows for efficient use of rack space, and It has flexible AC input voltage options, including 208V and 400V three-phase,

and 230V single-phase for certain models. The N8754A provides comprehensive protection features, including over-voltage, over-current, and over-temperature protection, to safeguard connected devices. It is equipped with standard LAN (LXI Core), USB, and GPIB interfaces for seamless integration into test systems and offers analog/resistance control for output voltage and current programming. Multiple N8754A units can be connected in parallel for increased current output or in series for higher voltage output. Technical Specifications * Model: Keysight N8754A (also known as Agilent N8754A) Output Ratings: * Voltage: 0-20 Vdc * Current: 0-250 A * Power: 5000 W Programming Accuracy: * Voltage: 0.025% + 15 mV * Current: 0.1% + 750 mA Output Ripple and Noise: * CV p-p: 75 mV * CV RMS: 10 mV AC Input Voltage Options: * 208 V, 3-Phase, 50/60 Hz * 400 V, 3-Phase, 50/60 Hz * 190-240 VAC, 50/60 Hz, 3-Phase * 230 V, Single-Phase, 50/60 Hz (available on 3.3 kW models only) * Note: AC input hardware is factory installed and cannot be changed after delivery. Programming Control: * Analog voltage (0-5 V or 0-10 V) * Resistance (0-5 k Ω or 0-10 k Ω) Device Protection: * Over-voltage protection (OVP) * Over-current protection (OCP) * Under-voltage limit (UVL) * Over-temperature protection Measurement: * Built-in voltage and current measurement Interfaces * Standard Interfaces: * LAN (LXI Core compliant) * USB 2.0 * GPIB Analog/Resistance Control: Available for output voltage and current programming Web Server: Built-in web server for remote access and control via a standard browser Physical * Form Factor: Compact 2U rack-mountable package Airflow: Front-to-back airflow, allowing for direct stacking of instruments without requiring additional space above or below Rack Mounting: Rack mount ears and handles are provided standard Compatibility and Configuration * Parallel Connection: Up to four identical units can be connected in parallel to achieve higher output current Series Connection: Up to two identical units can be connected in series to achieve higher output voltage Documentation * User Manuals available Data Sheets available Technical Overviews available Product Fact Sheets available Why Choose Aumictech for Keysight N8754A? At Aumictech, we specialize in supplying high-end DC power supply equipment. Whether you need solid power for complex R&D testing, reliable current for manufacturing validation, or precise voltage for laboratory analysis, our team ensures the Keysight N8754A delivers maximum performance for your application.

N8754A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	System DC power supply
Series Family	Keysight N8700 5 kW class
Rated Output Voltage	20 V
Rated Output Current	250 A
Rated Output Power	5000 W
Output Ripple Noise CV Peak Peak	75 mV at 20 MHz bandwidth
Output Ripple Noise CV RMS	10 mV from 5 Hz to 1 MHz
CV Load Regulation	8 mV
CC Load Regulation	250 mA
CV Line Regulation	2 mV
CC Line Regulation	125 mA
Voltage Programming Accuracy	0.025 percent plus 15 mV
Current Programming Accuracy	0.1 percent plus 750 mA
Voltage Measurement Accuracy	0.025 percent plus 25 mV
Current Measurement Accuracy	0.1 percent plus 750 mA
Load Transient Recovery Time	less than 1 ms
Overvoltage Protection Range	1 to 24 V
Package Height	2 U
Remote Interfaces	LAN USB 2.0 GPIB
LXI Compliance	LXI ClassCCommand Language: SCPI with IVI COM drivers
Parallel Capability	up to 4 identical units for higher current
Series Capability	2 identical units for higher voltage within isolation limits
Analog Program Monitor	0 to 5 V or 0 to 10 V and resistance programming paths
Temperature Spec Window	ambient 0 to 40 C unless otherwise noted in OEM tables
Bandwidth	Output Ripple Noise CV RMS: 10 mV from 5 Hz to 1 MHz

N8754A Specifications

PARAMETER	VALUE
Applications	High-power ATE DC sourcing, burn-in racks, and power-device validation needing up to about 5 kW in 2U.
Key Features	Compact 2U 19 inch system DC supply package
LAN USB and GPIB interfaces standard LXI Class C	Overvoltage overcurrent and overtemperature protection with UVL window
Technical Specifications	Instrument Type: System DC power supply
Notes	Numeric rows from Agilent/Keysight N8700 Series datasheet model column N8754A (5 kW tables).

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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CV Load Regulation	8 mV
CC Load Regulation	250 mA
CV Line Regulation	2 mV
CC Line Regulation	125 mA
Voltage Programming Accuracy	0.025 percent plus 15 mV
Current Programming Accuracy	0.1 percent plus 750 mA
Voltage Measurement Accuracy	0.025 percent plus 25 mV
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Load Transient Recovery Time	less than 1 ms
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Numeric rows from Agilent/Keysight N8700 Series datasheet model column N8754A (5 kW tables).	

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.