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Data Sheet
August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8738A DC Power Supply, 80 V, 42 A, 3360 W, Programmable

Keysight (Agilent) N8738A DC Power Supply, 80 V, 42 A, 3360 W, Programmable The Keysight N8738A is an N8700 Series system DC power supply rated 80 V / 42 A / 3360 W inacompact 2U package. Flexible AC input options; GPIB/LAN (LXI)/USB; built-in V/I measurement; analog/resistance control; parallel and series stacking for higher current or voltage. System DC bias; 80 V / multi-kW ATE; rack power for component and automotive tests. The Keysight N8738A is an N8700 Series system DC power supply rated 80 V / 42 A / 3360 W inacompact 2U package. Flexible AC input options; GPIB/LAN (LXI)/USB; built-in V/I measurement; analog/resistance control; parallel and series stacking for higher current or voltage. System DC bias; 80 V / multi-kW ATE; rack power for component and automotive tests.

MODEL **Keysight / Agilent N8738A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N8738A**	LISTING **https://aumictechlabs.com/products/n8738a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N8738A is a single-output programmable DC power supply delivering 80 V at 42 A (3360 W) in a compact 2U rackmount package. Built for automated test equipment and general-purpose applications, it combines high power density with precise programmable control, integrated measurement, and extensive protection mechanisms. The unit accepts multiple AC input configurations (85–265 Vac universal, 190–240 V single-phase, or 180–235 V three-phase at

50/60 Hz) and provides USB, LAN (LXI-Core), and GPIB interfaces with integrated web server access.Multiple units can be connected in parallel for increased current or in series for higher voltage output.Technical Specifications Output: 80 V, 42 A, 3360 W Voltage Accuracy: 0.05% + 40 mV Current Accuracy: 0.1% + 84 mA CV Ripple & Noise: 80 mV peak-to-peak, 25 mV RMS AC Input: 85–265 Vac (universal), 190–240 V (1-phase, 50/60 Hz), or 180–235 V (3-phase, 50/60 Hz) Package: 2U height, 19-inch-wide rackmount; front-to-back airflowKey Features Programmable voltage and current control via front panel, analog input, or bus interface Built-in voltage and current measurement Overcurrent, overvoltage, undervoltage, and overtemperature protection Front panel lockable controls with separate voltage and current knobs Parallel and series connection capability for extended output ranges IVI-COM drivers and SCPI command supportInterfaces & Control USB, LAN (LXI-Core), and GPIB connectivity Integrated web server for remote operation Analog/resistance control inputs Compatible with PathWave BenchVue Power Supply SoftwareTypical Applications Automated test equipment (ATE) and system integration High-current device characterization and burn-in testing Laboratory and industrial power sourcing

Features & description

From manufacturer datasheet

Features

• 80 V / 42 A / 3,360 W • 2U high-density package • Interfaces: GPIB, LAN (LXI-Core), USB • CV ripple: 80 mV p-p / 25 mV rms • Programming accuracy: 0.05% + 40 mV (V); 0.1% + 84 mA (I) • Parallel / series multi-unit capability • OVP/OCP/OTP

N8738A Characteristics / Specifications

PARAMETER	VALUE
Model	N8738A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N8700 Series (3.3 kW class)
Alias	N8738A DC Output Ratings
Voltage	0.05% + 40 mV
Current	0.1% + 126 mA Load Transient Recovery
Power	3,360 W Output Ripple and Noise
CV rms	25 mV Programming Accuracy
Time	< 1 ms AC Input Flexible AC options per N8700 datasheet (region-dependent configurations) Operational Notes Prefer Keysight N8700 Series datasheet (N8731A–N8742A 3.3 kW / N8754A–N8762A 5 kW) for full N8738A rows.
Interfaces	GPIB, LAN (LXI-Core), USB
CV ripple	80 mV p-p / 25 mV rms
Programming accuracy	0.05% + 40 mV (V); 0.1% + 84 mA (I)

N8738A Specifications

PARAMETER	VALUE
Applications	System DC bias; 80 V / multi-kW ATE; rack power for component and automotive tests.
Key Features	- 80 V / 42 A / 3,360 W
Technical Specifications	Model: N8738A
DC Output Ratings	Voltage: 0 to 80 V
Output Ripple and Noise	CV p-p: 80 mV
Measurement Accuracy	Voltage: 0.1% + 80 mV
Load Transient Recovery	Time: < 1 ms
AC Input	Flexible AC options per N8700 datasheet (region-dependent configurations)
Operational Notes	Prefer Keysight N8700 Series datasheet (N8731A–N8742A 3.3 kW / N8754A–N8762A 5 kW) for full N8738A rows.

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	N8738A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	System DC Power Supply
Family	N8700 Series (3.3 kW class)
Alias	N8738A

DC Output Ratings

Specifications

PARAMETER	VALUE
Voltage	0 to 80 V
Current	0 to 42 A
Power	3,360 W

Output Ripple and Noise
CV p-p: 80 mV
CV rms: 25 mV

Programming Accuracy
Voltage: 0.05% + 40 mV
Current: 0.1% + 84 mA

Measurement Accuracy
Voltage: 0.1% + 80 mV
Current: 0.1% + 126 mA

Load Transient Recovery
Time: < 1 ms

AC Input
Flexible AC options per N8700 datasheet (region-dependent configurations)

Operational Notes
Prefer Keysight N8700 Series datasheet (N8731A–N8742A 3.3 kW / N8754A–N8762A 5 kW) for full N8738A rows.

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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