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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N8731A DC Power Supply

Keysight (Agilent) N8731A DC Power Supply The Keysight N8731A is an N8700 Series ATE system DC power supply rated 8 V / 400 A / 3200 W in compact 2U package. Built-in V/I measurement; GPIB/LAN/USB/LXI; analog/resistance programming; parallel/series multi-unit operation. Flexible AC input options (208 V 3-phase, 400 V 3-phase, or 230 V single-phase on 3.3 kW models)–factory-fixed. High-current low-voltage ATE; system DC rails; aerospace/automotive/component manufacturing test. The Keysight N8731A is an N8700 Series ATE system DC power supply rated 8 V / 400 A / 3200 W in compact 2U package. Built-in V/I measurement; GPIB/LAN/USB/LXI; analog/resistance programming; parallel/series multi-unit operation. Flexible AC input options (208 V 3-phase, 400 V 3-phase, or 230 V single-phase on 3.3 kW models)–factory-fixed. High-current low-voltage ATE; system DC rails; aerospace/automotive/component manufacturing test.



MODEL

**Keysight / Agilent
N8731A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N8731A

LISTING

<https://aumictechlabs.com/products/n8731a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N8731A is a 3200 W single-output DC power supply delivering 8 V at 400 A, engineered for automated testing, research and development, and manufacturing process control. Its compact 2U rack-mountable form factor integrates into diverse test environments with front-to-back airflow and standard rack mount ears. Universal AC input (85–265 Vac) with optional three-phase configurations ensures flexible deployment, while USB, LAN (LXI-Core), and GPIB

interfaces support remote operation via built-in web server. Programming accuracy of $0.05\% + 4$ mV (voltage) and $0.1\% + 800$ mA (current) with 60 mV p-p output ripple meets demanding metrology requirements.

Technical Specifications
DC Output Voltage: 8 V Current: 400 A Power: 3200 W Accuracy Voltage: $0.05\% + 4$ mV Current: $0.1\% + 800$ mA Output Ripple and Noise CV p-p: 60 mV CV rms: 8 mV AC Input Universal: 85–265 Vac Optional: 208 V 3-phase, 400 V 3-phase, or 230 V single-phase AC input configuration is factory-installed and not field-changeable

Interfaces USB, LAN (LXI-Core), GPIB LXI Class C compliant Web-based remote control and monitoring

Key Features
Analog programming via 0–5 V / 0–10 V or 0–5 k Ω / 0–10 k Ω inputs
Integrated voltage and current measurement Front panel voltage and current adjustment knobs with optional lock function Overcurrent, overvoltage, undervoltage, and overtemperature protection
Parallel connection: up to four units for increased output current Series connection: two units for higher output voltage
Busbars for low-voltage connections; wire clamp connectors for higher-voltage models
Optional slide kit for flexible rack mounting

Typical Applications
Automated test systems, R&D benches, and manufacturing quality assurance requiring stable, precisely controlled DC power with remote programmability and comprehensive fault detection.

Compatibility & Integration
LXI-Core compliance and multi-protocol I/O (USB, LAN, GPIB) enable straightforward integration into existing ATE and laboratory automation frameworks. Built-in web server permits browser-based control independent of dedicated drivers or software installations.

Features & description

From manufacturer datasheet

Features

• Output: 8 V / 400 A / 3200 W • Form: 2U; front-to-back airflow • Interfaces: GPIB, LAN (LXI), USB • Ripple: CV p-p 60 mV; CV rms 8 mV (class) • Programming accuracy: Voltage 0.05% + 4 mV; Current 0.1% + 800 mA (published class) • OVP/OCP/OTP; parallel up to four units

N8731A Characteristics / Specifications

PARAMETER	VALUE
Model	N8731A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Programmable System DC Power Supply
Family	N8700 Series (3.3 kW)
Alias	N8731A DC Output Ratings
Voltage	0.05% + 4 mV
Current	0.1% + 800 mA AC Input
Power	3200 W Output Ripple and Noise
CV rms	8 mV Programming Accuracy (class)
Output	8 V / 400 A / 3200 W
Form	2U; front-to-back airflow
Interfaces	GPIB, LAN (LXI), USB
Ripple	CV p-p 60 mV; CV rms 8 mV (class)
Programming accuracy	Voltage 0.05% + 4 mV; Current 0.1% + 800 mA (published class)

N8731A Specifications

PARAMETER	VALUE
Keysight (Agilent) N8731A DC Power Supply	Overview
Applications	High-current low-voltage ATE; system DC rails; aerospace/automotive/component manufacturing test.
Key Features	- Output: 8 V / 400 A / 3200 W
Technical Specifications	Model: N8731A
DC Output Ratings	Voltage: 0 to 8 V
Output Ripple and Noise	CV p-p: 60 mV
Programming Accuracy (class)	Voltage: 0.05% + 4 mV
AC Input	Options: 208 V 3-phase, 400 V 3-phase, or 230 V single-phase (3.3 kW models)—cannot be changed after delivery without factory return
Operational Notes	Prefer Keysight N8700 Series datasheet for full programming/measurement accuracy and transient tables for N8731A.

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	N8731A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Programmable System DC Power Supply
Family	N8700 Series (3.3 kW)
Alias	N8731A
DC Output Ratings	
Specifications	
PARAMETER	VALUE
Voltage	0 to 8 V
Current	0 to 400 A
Power	3200 W
Output Ripple and Noise	
CV p-p: 60 mV	
CV rms: 8 mV	
Programming Accuracy (class)	
Voltage: 0.05% + 4 mV	
Current: 0.1% + 800 mA	
AC Input	
Options: 208 V 3-phase, 400 V 3-phase, or 230 V single-phase (3.3 kW models)-cannot be changed after delivery without factory return	
Operational Notes	
Prefer Keysight N8700 Series datasheet for full programming/measurement accuracy and transient tables for N8731A.	

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 ·
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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.