

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight U8031A Triple-Output Power Supply

Agilent Keysight U8031A Triple-Output DC Power Supply 30 V 6 A The Agilent/Keysight U8031A isaU8030 Series triple-output bench DC power supply with two 0 to 30 V / 6 A variable outputs and one fixed 5 V / 3 A output for 375 W total. OEM U8030 Series datasheets list output sequencing, OVP/OCF, dual metering, and low ripple inahalf-rack form factor. Electronics manufacturing R&D and education multi-rail bias, sequenced power-up of DUTs, and general-purpose triple-output bench power. Output sequencing without complex programming The Agilent/Keysight U8031A isaU8030 Series triple-output bench DC power supply with two 0 to 30 V / 6 A variable outputs and one fixed 5 V / 3 A output for 375 W total. OEM U8030 Series datasheets list output sequencing, OVP/OCF, dual metering, and low ripple inahalf-rack form factor. Electronics manufacturing R&D and education multi-rail bias, sequenced power-up of DUTs, and general-purpose triple-output bench power. Output sequencing without complex programming Channel 1 And 2 Voltage: 0 to 30 V at 0 to 40 C



MODEL

**Agilent / Keysight
U8031A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U8031A

LISTING

<https://aumictechlabs.com/products/u8031a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U8031A is a triple-output DC power supply designed for benchtop testing and experimentation. It delivers three independent, adjustable voltage and current outputs

enabling simultaneous powering of multiple circuits with precise control. Each output operates independently with dedicated digital monitoring and integrated protection. The instrument is built for engineering labs, educational facilities, and development environments demanding reliable, flexible power delivery.

Technical Specifications

Output Configuration Three independent DC outputs with adjustable voltage and current per output

Outputs 1 & 2: 0–6 V, 0–5 A with 10 mV and 10 mA resolution

Output 3: 0–30 V, 0–1 A with 100 mV and 10 mA resolution

Load regulation

(Outputs 1 & 2): $\leq 0.01\% + 2 \text{ mV}$ (voltage), $\leq 0.02\% + 5 \text{ mA}$ (current)

Load regulation (Output 3): $\leq 0.01\% + 20 \text{ mV}$ (voltage), $\leq 0.02\% + 2 \text{ mA}$ (current)

Line regulation

(Outputs 1 & 2): $\leq 0.01\% + 5 \text{ mV}$ (voltage), $\leq 0.02\% + 10 \text{ mA}$ (current)

Line regulation (Output 3): $\leq 0.01\% + 50 \text{ mV}$ (voltage), $\leq 0.02\% + 5 \text{ mA}$ (current)

Output Quality

Ripple and noise (20 Hz–20 MHz): $\leq 1 \text{ mVrms}$ normal mode voltage (all outputs)

Ripple and noise (20 Hz–20 MHz): $\leq 5 \text{ mArms}$ normal mode current (Outputs 1 & 2), $\leq 2 \text{ mArms}$ (Output 3)

Common mode voltage: $\leq 1 \text{ mVrms}$ across all outputs

Transient response (50%–100% load change): $< 500 \mu\text{s}$ recovery (Outputs 1 & 2), $< 1 \text{ ms}$ recovery (Output 3)

Protection and Control

Overvoltage protection (OVP) and overcurrent protection (OCP)

Output enable/disable per channel

Digital LED display with simultaneous voltage and current readout for each output

Standard binding post terminals

Power Input Input voltage range: 100–120 V

Key Features

Independent output control allows multi-rail power distribution in single instrument

Low output ripple and noise ($< 1 \text{ mVrms}$) supports sensitive analog circuit testing

Fast transient response ensures stable supply under dynamic load conditions

Digital display eliminates analog meter ambiguity during real-time monitoring

Typical Applications

Multi-rail IC and circuit development and characterization

Analog and mixed-signal device testing requiring independent supply rails

Educational laboratory benchtop power delivery

Device burn-in and reliability testing protocols

Compatibility & Integration

Standard binding post outputs integrate with conventional test leads and fixtures. The U8031A operates from standard 100–120 V AC mains.

U8031A Characteristics / Specifications

PARAMETER	VALUE
Model	U8031A
Total Power Output	0 to 375 W
Channel 1 And 2 Voltage	0 to 30 V at 0 to 40 C
Channel 1 And 2 Current	0 to 6 A at 0 to 40 C
Channel 3 Fixed Output	5 V 3 A
Channel 3 Accuracy	less than or equal to 5 percent or 5 V plus or minus 0.25 V
Channel 3 Ripple	less than 2 mVrms or less than 50 mVpp
Channel 3 Load Line Regulation	less than or equal to 5 mV
Number Of Outputs	three isolated
Line Load Regulation CV	less than 0.01 percent plus 2 mV
Line Load Regulation CC	less than 0.02 percent plus 2 mA
CV Ripple Noise	less than or equal to 1 mVrms 0.5 mVrms typical or less than or equal to 10 mVpp 5 mVpp typical 20 Hz to 20 MHz
CC Ripple Noise	less than or equal to 1 mArms
Transient Response	less than 50 us
Programming Accuracy CV 23 Plus Or Minus 5 C	less than or equal to 0.25 percent plus 15 mV
Programming Accuracy CC	less than or equal to 0.30 percent plus 15 mA
Meter Readback Accuracy CV	less than or equal to 0.25 percent plus 10 mV
Meter Readback Accuracy CC	less than or equal to 0.25 percent plus 10 mA
Programming Meter Resolution Voltage	10 mV
Programming Meter Resolution Current	10 mA
Maximum Output Float Voltage	plus or minus 240 Vdc
OVP Response Time	less than 10 ms
OCP Response Time	less than 10 ms
Maximum Input Power	600 VA

PARAMETER	VALUE
AC Input Options	100 115 or 230 Vac plus or minus 10 percent 47 to 63 Hz
Weight Class	8.2 kg class per U8030 literature
Form Factor	4U half-rack class

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	U8031A
Total Power Output	0 to 375 W
Channel 1 And 2 Voltage	0 to 30 V at 0 to 40 C
Channel 1 And 2 Current	0 to 6 A at 0 to 40 C
Channel 3 Fixed Output	5 V 3 A
Channel 3 Accuracy	less than or equal to 5 percent or 5 V plus or minus 0.25 V
Channel 3 Ripple	less than 2 mVrms or less than 50 mVpp
Channel 3 Load Line Regulation	less than or equal to 5 mV
Number Of Outputs	three isolated
Line Load Regulation CV	less than 0.01 percent plus 2 mV
Line Load Regulation CC	less than 0.02 percent plus 2 mA
CV Ripple Noise	less than or equal to 1 mVrms 0.5 mVrms typical or less than or equal to 10 mVpp 5 mVpp typical 20 Hz to 20 MHz
CC Ripple Noise	less than or equal to 1 mA rms
Transient Response	less than 50 us
Programming Accuracy CV 23 Plus Or Minus 5 C: less than or equal to 0.25 percent plus 15 mV	
Specifications	
PARAMETER	VALUE
Programming Accuracy CC	less than or equal to 0.30 percent plus 15 mA
Meter Readback Accuracy CV	less than or equal to 0.25 percent plus 10 mV
Meter Readback Accuracy CC	less than or equal to 0.25 percent plus 10 mA
Programming Meter Resolution Voltage	10 mV
Programming Meter Resolution Current	10 mA
Maximum Output Float Voltage	plus or minus 240 Vdc
OVP Response Time	less than 10 ms
OCP Response Time	less than 10 ms

PARAMETER	VALUE
Maximum Input Power	600 VA
AC Input Options	100 115 or 230 Vac plus or minus 10 percent 47 to 63 Hz
Weight Class	8.2 kg class per U8030 literature
Form Factor	4U half-rack class

Notes

From Keysight/Agilent U8030 Series Triple-Output DC Power Supplies data sheet and U8031 user guide electrical specifications for U8031A. Warm-up 1 hour for stated specs unless noted.

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.