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Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) U8001A DC Power Supply, 30 V, 3 A, 90 W

Keysight (Agilent) U8001A DC Power Supply, 30 V, 3 A, 90 W The Keysight U8001A isaU8000 Series single-output DC power supply rated 0 to +30 V and 0 to 3 A (90 W). It provides CV/CC operation with low ripple, programmable OVP/OCP, keypad lock, and storage of operating states. Companion U8002A is the 30 V / 5 A (150 W) sibling. General bench DC bias; low-to-moderate power DUT supply; education and production setups needing simple single-output 30 V / 3 A / 90 W. The Keysight U8001A isaU8000 Series single-output DC power supply rated 0 to +30 V and 0 to 3 A (90 W). It provides CV/CC operation with low ripple, programmable OVP/OCP, keypad lock, and storage of operating states. Companion U8002A is the 30 V / 5 A (150 W) sibling. General bench DC bias; low-to-moderate power DUT supply; education and production setups needing simple single-output 30 V / 3 A / 90 W.



MODEL

**Keysight / Agilent
U8001A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U8001A

LISTING

<https://aumictechlabs.com/products/u8001a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight U8001A is a 90 W single-output DC power supply delivering 0–30 V at 0–3 A, designed for laboratory, manufacturing, and educational testing environments. It combines precise voltage and current regulation with low output noise and fast transient response, making it suitable for device characterization, bench testing, and development work. Non-programmable

control via front-panel adjustment and three saved operating states enable straightforward operation without software configuration. Built-in overvoltage and overcurrent protection safeguard connected equipment during test cycles.

Technical Specifications

Output: 0–30 V, 0–3 A, 90 W maximum
Line Regulation: $< 0.01\% + 2 \text{ mV}$ (CV mode); $< 0.02\% + 2 \text{ mA}$ (CC mode)
Load Regulation: $< 0.01\% + 2 \text{ mV}$ (CV mode); $< 0.02\% + 2 \text{ mA}$ (CC mode)
Output Ripple and Noise: 12 mVpp; $< 1 \text{ mVrms}$; 3 mArms (20 Hz to 20 MHz bandwidth)
Readback Accuracy: $\pm 0.35\% + 20 \text{ mV}$ (voltage); $\pm 0.35\% + 20 \text{ mA}$ (current)
Transient Response: 50 μsec for load changes
Output Impedance: $< 380 \text{ ppm}/^\circ\text{C}$ (current regulation)
Protection: Integrated overvoltage protection (OVP) and overcurrent protection (OCP)

Key Features

Backlit LCD display with rotary knob and keypad controls
Keypad lock function prevents accidental front-panel adjustments
Three memory slots for saving and recalling operating states
Standby output function for reduced idle power consumption
Physical lock mechanism on rear panel for secure storage
Dual AC input: 110 V or 230 V ac

Typical Applications

Component and subsystem characterization
Bench power for prototype development
Parametric testing in manufacturing QA
Educational laboratory demonstrations

Compatibility & Integration

Binding posts support standard test lead connections.
CSA, C-tick, and CE certifications confirm compliance with regional safety standards for Installation Category II, Pollution Degree 2 indoor environments.

Features & description

From manufacturer datasheet

Features

• Output: 0 to +30 V / 0 to 3 A (90 W) • Line/Load regulation: CV $<0.01\% + 2 \text{ mV}$; CC $<0.02\% + 2 \text{ mA}$ • Ripple and Noise (25 °C ± 5 °C): CV 12 mVp-p, $<1 \text{ mVrms}$; CC 3 mArms • Load transient: $<50 \mu\text{s}$ (within 15 mV, full $\leftrightarrow$ half load) • Programming / readback accuracy: $<0.35\% + 20 \text{ mV}$; $<0.35\% + 20 \text{ mA}$ • Meter resolution: 10 mV / 10 mA • OVP programmable ($\sim 33 \text{ V}$ class); OCP 1 A to 3.3 A • Max float voltage: $\pm 240 \text{ Vdc}$ • Memory: up to 3 operating states

U8001A Characteristics / Specifications

PARAMETER	VALUE
Model	U8001A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Single-Output DC Power Supply
Family	U8000 Series
Alias	U8001A; Agilent U8001A Output Ratings (0 °C to 40 °C)
Voltage	0 to +30 V
Current	0 to 3 A
Power	90 W Regulation and Noise
Line and Load Regulation	CV <0.01% + 2 mV; CC <0.02% + 2 mA
Load Transient Response	<50 µs (within 15 mV, full load ↔ half load) Accuracy and Metering
Meter Resolution	10 mV; 10 mA Protection
OVP Accuracy	<0.5% + 0.5 V
OVP Range	programmable (to ~33 V class)
OCP Range	1 A to 3.3 A
Max Output Float Voltage	±240 Vdc AC Input
Selectable	100 / 115 / 230 Vac ±10%, 47–63 Hz
Maximum Input Power	330 VA Physical
Weight	7.3 kg Operational Notes Prefer Keysight U8000 Series datasheet for full OVP programming limits and safety/EMC declarations. Do not confuse with U8002A (5 A / 150 W).
Output	0 to +30 V / 0 to 3 A (90 W)
Line/Load regulation	CV <0.01% + 2 mV; CC <0.02% + 2 mA
Ripple and Noise (25 °C ±5 °C)	CV 12 mVp-p, <1 mVrms; CC 3 mArms
Load transient	<50 µs (within 15 mV, full↔half load)
Programming / readback accuracy	<0.35% + 20 mV; <0.35% + 20 mA
Max float voltage	±240 Vdc

PARAMETER	VALUE
Memory	up to 3 operating states

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	U8001A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Single-Output DC Power Supply
Family	U8000 Series
Alias	U8001A; Agilent U8001A

Output Ratings (0 °C to 40 °C)

Specifications

PARAMETER	VALUE
Voltage	0 to +30 V
Current	0 to 3 A
Power	90 W

Regulation and Noise

Line and Load Regulation: CV <0.01% + 2 mV; CC <0.02% + 2 mA

Ripple and Noise (25 °C ±5 °C): CV 12 mVp-p, <1 mVrms; CC 3 mA_{rms}

Load Transient Response: <50 μs (within 15 mV, full load ↔ half load)

Accuracy and Metering

Programming Accuracy (25 °C ±5 °C): <0.35% + 20 mV; <0.35% + 20 mA

Readback Accuracy (25 °C ±5 °C): <0.35% + 20 mV; <0.35% + 20 mA

Meter Resolution: 10 mV; 10 mA

Protection

Specifications

PARAMETER	VALUE
OVP Accuracy	<0.5% + 0.5 V
OVP Range	programmable (to ~33 V class)
OCP Range	1 A to 3.3 A
Max Output Float Voltage	±240 Vdc

AC Input

Selectable: 100 / 115 / 230 Vac ±10%, 47-63 Hz

Maximum Input Power: 330 VA

Physical

Dimensions (H×W×L): 88.1 × 212.3 × 394.3 mm

Weight: 7.3 kg

Operational Notes

Prefer Keysight U8000 Series datasheet for full OVP programming limits and safety/EMC declarations. Do not confuse with U8002A (5 A / 150 W).

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.