

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 3, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) U8002A DC Power Supply, 30 V, 5 A

Keysight (Agilent) U8002A DC Power Supply, 30 V, 5 A The Keysight U8002A is a U8000 Series single-output DC power supply rated 0 to +30 V and 0 to 5 A (150 W). It provides CV/CC operation with low ripple, programmable OVP/OCP, keypad lock, and storage of operating states. Companion U8001A is the 30 V / 3 A (90 W) sibling. General bench DC bias; moderate-power DUT supply; education and production setups needing simple single-output 30 V / 5 A. The Keysight U8002A is a U8000 Series single-output DC power supply rated 0 to +30 V and 0 to 5 A (150 W). It provides CV/CC operation with low ripple, programmable OVP/OCP, keypad lock, and storage of operating states. Companion U8001A is the 30 V / 3 A (90 W) sibling. General bench DC bias; moderate-power DUT supply; education and production setups needing simple single-output 30 V / 5 A.



MODEL

**Keysight / Agilent
U8002A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

U8002A

LISTING

<https://aumictechlabs.com/products/u8002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight U8002A is a 150 W single-output DC power supply engineered for electronics manufacturing, R&D, and precision test environments. It delivers adjustable voltage from 0 to 30 V and current from 0 to 5 A with tight regulation and exceptionally low noise, making it ideal for

sensitive device characterization and bench-level power delivery tasks.

Technical Specifications

Output Performance Maximum power: 150 W Output voltage: 0 to 30 V (adjustable) Output current: 0 to 5 A (adjustable) Constant voltage regulation: $< 0.01\% + 2 \text{ mV}$ Constant current regulation: $< 0.02\% + 2 \text{ mA}$ Output ripple and noise: $< 1 \text{ mVrms}$ (20 Hz to 20 MHz), 3 mArms, 12 mVpp Transient response: 50 μsec Programming/readback accuracy: voltage $0.35\% + 20 \text{ mV}$; current $0.35\% + 20 \text{ mA}$ CC current limit accuracy: $< 300 \text{ ppm}/^\circ\text{C}$ Input Power Input voltage: 104–126 VAC Input frequency: 47 Hz to 63 Hz Display & Interface LCD with backlight on/off control Digital readout resolution: 10 mV (voltage), 10 mA (current) Rotary knob voltage and current adjustment Memory: save and recall up to 3 settings Keypad lock (disables front panel except lock button) Physical lock mechanism Standby output mode for high-security operation

Key Features Over-voltage protection (OVP) and over-current protection (OCP) safeguard the supply and device under test Precision regulation suitable for low-noise, high-stability applications Bench-top form factor with compact dimensions: 88.1 mm (H) $\times$ 212.3 mm (W) $\times$ 394.3 mm (D) Weight: 8.3 kg Operating temperature range: 0°C to 55°C

Typical Applications Power supply for integrated circuit testing, component validation, automated test systems, laboratory research, and manufacturing QA environments where stable, low-noise DC power is essential.

Compatibility & Integration Rack-mount adapters available: single-instrument kit 5063-9240; dual-instrument side-by-side kit 5061-9694 with flange kit 5063-9212; sliding support shelf 506 for dual-instrument configuration. CSA listed (US/Canada); CE and C-tick approved. Compliant with IEC 61326, EN61326, CISPR 11, AS/NZS CISPR11, ICES-001, and WEEE Directive.

Features & description

From manufacturer datasheet

Features

- Output: 0 to +30 V / 0 to 5 A (150 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
- Meter resolution: 10 mV / 10 mA • OVP programmable to 33 V class; OCP 1 A to 5.5 A • Max float voltage: ±240 Vdc • Memory: up to 3 operating states

U8002A Characteristics / Specifications

PARAMETER	VALUE
Model	U8002A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Single-Output DC Power Supply
Family	U8000 Series
Alias	U8002A; Agilent U8002A Output Ratings (0 °C to 40 °C)
Voltage	0 to +30 V
Current	0 to 5 A
Power	150 W Regulation and Noise
Line and Load Regulation	CV <0.01% + 2 mV; CC <0.02% + 2 mA
Load Transient Response	<50 μ s (within 15 mV, full load $\leftrightarrow$ 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 5.5 A
Max Output Float Voltage	$\pm$ 240 Vdc AC Input
Selectable	100 / 115 / 230 Vac $\pm$ 10%, 47–63 Hz
Maximum Input Power	500 VA Physical
Weight	8.3 kg Operational Notes Prefer Keysight U8000 Series datasheet for full OVP programming limits and safety/EMC declarations. Do not confuse with U8001A (3 A / 90 W).
Output	0 to +30 V / 0 to 5 A (150 W)
Line/Load regulation	CV <0.01% + 2 mV; CC <0.02% + 2 mA
Ripple and Noise (25 °C $\pm$ 5 °C)	CV 12 mVp-p, <1 mVrms; CC 3 mArms
Load transient	<50 μ s (within 15 mV, full $\leftrightarrow$ half load)
Programming / readback accuracy	<0.35% + 20 mV; <0.35% + 20 mA
Max float voltage	$\pm$ 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	U8002A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Single-Output DC Power Supply
Family	U8000 Series
Alias	U8002A; Agilent U8002A

Output Ratings (0 °C to 40 °C)

Specifications

PARAMETER	VALUE
Voltage	0 to +30 V
Current	0 to 5 A
Power	150 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 5.5 A
Max Output Float Voltage	±240 V _{dc}

AC Input
Selectable: 100 / 115 / 230 Vac ±10%, 47-63 Hz
Maximum Input Power: 500 VA

Physical

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

Weight: 8.3 kg

Operational Notes

Prefer Keysight U8000 Series datasheet for full OVP programming limits and safety/EMC declarations. Do not confuse with U8001A (3 A / 90 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

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 3, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.