

KEYSIGHT TECHNOLOGIES (AGILENT HP)

U8000 Series - 90-150W

The Keysight Technologies (formerly Agilent) U8000 Series comprises the U8001A (90W) and U8002A (150W) single-output, non-programmable DC power supplies. Offering outstanding load and line regulation, fast transient response, low output noise, and integrated overvoltage and overcurrent protection, these reliable benchtop power supplies deliver the capabilities and security of programmable power supplies at an affordable price point.

SPECIFICATIONS

General

Interfaces	None (Non-programmable; features Kensington security lock slot for physical security)
Display	LCD with backlight on/off options
Standard Included Accessories	Power cord, Quick Reference Guide, Product Reference CD-ROM, Certificate of Calibration

Physical

Operating Temperature	0 °C to 40 °C °C
Weight	7.3 kg (U8001A) / 8.3 kg (U8002A) kg
Output Terminal Type	Front panel binding posts

Output Specifications

Number of Outputs	1
DC Output Voltage Range	0 V to 30 V
U8001A DC Output Current Range	0 A to 3 A
U8002A DC Output Current Range	0 A to 5 A
U8001A Maximum Output Power	90 W
U8002A Maximum Output Power	150 W

Programming and Readback Accuracy

Voltage Programming Accuracy	< 0.35% + 20 mV (at 25 °C ± 5 °C)
U8001A Current Programming Accuracy	< 0.35% + 15 mA (at 25 °C ± 5 °C)
U8002A Current Programming Accuracy	< 0.35% + 20 mA (at 25 °C ± 5 °C)
Voltage Readback Accuracy	< 0.35% + 20 mV (at 25 °C ± 5 °C)
U8001A Current Readback Accuracy	< 0.35% + 15 mA (at 25 °C ± 5 °C)
U8002A Current Readback Accuracy	< 0.35% + 20 mA (at 25 °C ± 5 °C)

Programming and Readback Resolution

Voltage Programming Resolution	10 mV
Current Programming Resolution	10 mA
Voltage Readback Resolution	10 mV
Current Readback Resolution	10 mA
Voltage Meter Resolution	10 mV
Current Meter Resolution	10 mA

Transient Response

Transient Recovery Time	< 50 μ s
Transient Load Change Amplitude	50% to 100% of full load
Transient Settling Band	Within 15 mV of nominal value

Protection Features

Overvoltage Protection (OVP) Range	1 V to 33 V
Overvoltage Protection Accuracy	< 0.5% + 0.5 V

User Interface and Controls

Save/Recall Memory States	3 memory states
Keylock Security Feature	Yes (prevents accidental front-panel changes)
Output On/Off Switch	Yes

Power Input Requirements

AC Input Voltage Settings	100 Vac / 115 Vac / 230 Vac ($\pm$ 10% tolerance, switch-selectable)
AC Input Frequency Range	47 Hz to 63 Hz
U8001A Fuse Rating	T4.0 AL / 250 V (100/115 Vac) or T2.0 AL / 250 V (230 Vac)
U8002A Fuse Rating	T6.3 AL / 250 V (100/115 Vac) or T3.15 AL / 250 V (230 Vac)

Environmental Conditions

Storage Temperature Range	-20 °C to 70 °C
Operating Humidity Range	Up to 80% RH (non-condensing) at 40 °C
Operating Altitude	Up to 2000 meters
Cooling Mechanism	Forced air cooling (internal fan)
Installation Category	CAT II
Pollution Degree	Pollution Degree 2

Physical and Mechanical

Width (without bumpers)	212.3 mm
Width (with bumpers)	230.0 mm
Height (without bumpers)	88.1 mm (2U)
Height (with bumpers)	104.2 mm
U8001A Net Weight	7.3 kg
U8002A Net Weight	8.3 kg
Rackmount Form Factor Compatibility	Yes (with standard rackmount kits)

Compliance and Safety

Safety Standard Certifications	CSA C22.2 No. 61010-1, UL 61010-1
Electromagnetic Compatibility (EMC)	CE, C-tick (EN61326-1, ICES-001)
Recommended Calibration Cycle	1 year

Performance

Maximum Output Float Voltage	±240 Vdc
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TECHNOLOGY

Linear

APPLICATIONS

Benchtop DC Power Supply

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.