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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6102A DC Power Supply

Agilent 6102A Precision DC Power Supply 0 V to 40 V 0 A to 0.5 A The HP 6102A is an STB-series precision CV/current-limiting DC supply. OEM 6101A Operating and Service Manual covers Models 6101A, 6102A, 6106A, 6111A, 6112A, 6113A, and 6116A; this model is rated 0 V to 40 V at 0 A to 0.5 A. Precision bench reference, 0.1 percent calibrator-class programming, and remotely sensed lab DC. Oven-stabilized zener reference on the STB series The HP 6102A is an STB-series precision CV/current-limiting DC supply. OEM 6101A Operating and Service Manual covers Models 6101A, 6102A, 6106A, 6111A, 6112A, 6113A, and 6116A; this model is rated 0 V to 40 V at 0 A to 0.5 A. Precision bench reference, 0.1 percent calibrator-class programming, and remotely sensed lab DC. Oven-stabilized zener reference on the STB series Ten-turn coarse plus fine voltage on 610x; 611x add thumbwheel programming



MODEL

**Agilent / Keysight
6102A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6102A

LISTING

<https://aumictechlabs.com/products/6102a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6102A is a programmable DC power supply module engineered for automated test equipment, production test, and development environments requiring precise voltage and current control. This 150 W module operates from 0 to 20 V at 0 to 7.5 A and integrates into the modular 66000 series mainframe for scalable multi-module configurations up to 1200 W total system power. GPIB interface, LIST mode sequencing, and advanced triggering enable sophisticated test automation and characterization workflows. Technical Specifications

Output Ratings: Voltage: 0 to 20 V Current: 0 to 7.5 A Maximum Power: 150 W per module (1200 W maximum per 66000 series mainframe with up to eight modules) Programming and Readback Accuracy (25°C ±5°C): Voltage programming: 0.03% + 8 mV Current programming: 0.03% + 3 mA Voltage readback: 0.02% + 5 mV Current readback: 0.02% + 3 mA Load and Line Regulation: Voltage load regulation: 0.01% + 3 mV typical (100% load change) Current load regulation: 0.02% + 3 mA typical (100% load change) Voltage line regulation: 0.01% + 3 mV typical (10% line change) Current line regulation: 0.02% + 3 mA typical (10% line change) Ripple and Noise (20 Hz to 20 MHz): Constant voltage: 3 mV RMS, 7 mV peak-to-peak Constant current: 4 mA RMS Transient Response: Settling time: Less than 120 ms within 0.1% of final value Rise/fall time (10% to 90%): Less than 20 ms

Key Features Modular 4U rack design with quick-disconnect connectors for efficient installation and replacement GPIB control for integration into automated test systems LIST mode support for sequential output programming Advanced triggering capability for synchronized multi-module operation

Typical Applications Automated test equipment (ATE) for component and subsystem characterization Production test and burn-in operations Research and development power sourcing Multi-channel test systems requiring coordinated voltage and current delivery

Compatibility & Integration Designed as a module within the 66000 series mainframe architecture, the 6102A combines with other modules to create configurable multi-output systems. Module weight is 2.8 kg.

6102A Characteristics / Specifications

PARAMETER	VALUE
Model	6102A
Instrument Type	Precision constant voltage current limiting DC power supply
Series Family	HP STB 6101A 6102A 6106A 6111A 6112A 6113A 6116A
Output Voltage Range	0 V to 40 V
Output Current Range	0 A to 0.5 A
Load Regulation Front Family	less than 0.001 percent plus 600 μ V (6101A Table 1-1 family)
Load Regulation Rear Family	less than 0.001 percent plus 100 μ V (6101A Table 1-1 family)
Line Regulation Family	less than 0.001 percent output change for any line change within rating (6101A Table 1-1)
Ripple Noise Peak Peak Family	less than 100 μ V peak-to-peak (6101A Table 1-1)
Ripple Noise Rms Family	less than 40 μ V rms (6101A Table 1-1)
Temperature Coefficient Front Family	less than 0.005 percent plus 30 μ V perCAfter 30 minute warm-up
Temperature Coefficient Remote Family	less than 0.001 percent plus 10 μ V perCAfter 30 minute warm-up
Stability 8 h Front Family	less than 0.01 percent plus 300 μ V for 8 hours, less than plus or minus 3 C ambient
Stability 8 h Remote Family	less than 0.01 percent plus 100 μ V for 8 hours
Stability 1 Month Family	less than 0.012 percent plus 120 μ V for one month
Operating Temperature Family	0 C to 50 C
Storage Temperature Family	minus 20 C to +85 C
Transient Recovery 10 mV Family	less than 50 μ s to within 10 mV after full load current change
Transient Recovery To Spec Family	less than 100 μ s to within load-regulation specification
Programming Coefficient Family	1000 ohms per volt with 0.1 percent plus 1 mV accuracy (6101A Table 1-1)
Output Impedance Dc To 100 Hz Family	less than 0.002 ohm
Current Limit This Model	0.52 A maximum current-limit test
Load Regulation Test Limit	0.75 mVdc at rated voltage (STB performance-test table)
Line Regulation Test Limit	0.4 mVdc for 105 to 125 Vac (STB performance-test table)

PARAMETER	VALUE
Remote Program Resistance Rated V	40 kOhm
Meter Voltage Scale Class	0 to 60 V class meter scale
Ac Input Family	105 to 125 / 210 to 250 Vac, 48 to 63 Hz
Size Family	3.5 inHx 8.5 inWx 12.625 inDWeight Family: 10 lb net, 13 lb shipping (6101A Table 1-1)
Floating Voltage Family	up to 300 V off ground
Storage temperature	Family: minus 20 C to +85 C
Operating temperature	Family: 0 C to 50 C

General Specifications & Supplementary Characteristics

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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	
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Notes

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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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<https://aumictechlabs.com>

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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.