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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6111A 20W DC Power Supply

Agilent 6111A Precision DC Power Supply 0 V to 20 V 0 A to 1 A The HP 6111A 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 20 V at 0 A to 1 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 6111A 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 20 V at 0 A to 1 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
6111A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6111A

LISTING

<https://aumictechlabs.com/products/6111a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6111A is a 20 W DC power supply delivering precise voltage and current control across 0–20 Vdc and 0–1 A output ranges. Built for benchtop research, quality assurance, and automated test equipment systems, it combines exceptional load and line regulation with low ripple performance and front-panel programmability. The instrument operates in Constant Voltage or Constant Current limit modes, supported by remote programming, remote sensing, and auto-series/auto-tracking capabilities. Technical Specifications Output Performance Voltage: 0–20 Vdc

Current: 0–1 A Power: 20 W Voltage regulation (line): <0.001% for input variations within rating
Voltage regulation (load): <0.001% + 200 μ V (front terminals); <0.001% + 100 μ V (rear terminals)
Current regulation (load): 0.01% + 15 mA Ripple and noise: 8 mV RMS, 50 mV peak-to-peak
(voltage); 120 mA RMS (current) Control and Monitoring Voltage adjustment: 5-digit thumb-wheel
control Current limiting: Adjustable limiter with CC/CV mode switching Remote programming: 0–5
V or 0–4000 Ω analog inputs Remote sensing: Load-point regulation capability Front-panel
meters: 3.5-digit display for voltage and current (X1, X0.1 ranges) Buffered outputs: 0–5 V monitor
signals for voltage and current Overvoltage protection: Adjustable front-panel trip level Input and
Environmental Input: 115 VAC $\pm$ 10%, 1 phase, 48–63 Hz (alternative: 105–125 VAC or 210–250 VAC)
Power consumption: 52 W Operating temperature: 0°C to 50°C Dimensions: 5.25" H $\times$ 8.5" W $\times$
12.625" D Weight: 11 lbs (net)Key Features Exceptional load and line regulation for stable precision
test conditions Dual-terminal configuration (front/rear) with independent sensing Auto-series and
auto-tracking modes for multi-unit configurations Thermal and AC line overvoltage protection Low
ripple voltage (8 mV RMS) suitable for sensitive device testingTypical Applications Component
characterization, circuit validation, power supply testing, device burn-in, and precision laboratory
measurement requiring stable, programmable DC output with integral protection.

6111A Characteristics / Specifications

PARAMETER	VALUE
Model	6111A
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 20 V
Output Current Range	0 A to 1 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	1.05 A maximum current-limit test
Load Regulation Test Limit	0.8 mVdc at rated voltage (STB performance-test table)
Line Regulation Test Limit	0.2 mVdc for 105 to 125 Vac (STB performance-test table)

PARAMETER	VALUE
Remote Program Resistance Rated V	20 kOhm
Meter Voltage Scale Class	0 to 25 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.