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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6011A DC Power Supply

Agilent 6011A Autoranging DC Power Supply 0 to 20 V 0 to 120 A 1072 W The HP/Agilent 6011A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 20 V, 0 to 120 A, and 1072 W, with corner points 20 V, 50 A; 14 V, 76 A; and 7 V, 120 A. This non-GPIB autoranger pairs electrically with the matching system column. ATE and bench DC power where one supply must cover several voltage/current combinations at rated watts. Autoranging envelope delivers rated watts across multiple V/I corners The HP/Agilent 6011A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 20 V, 0 to 120 A, and 1072 W, with corner points 20 V, 50 A; 14 V, 76 A; and 7 V, 120 A. This non-GPIB autoranger pairs electrically with the matching system column. ATE and bench DC power where one supply must cover several voltage/current combinations at rated watts. Autoranging envelope delivers rated watts across multiple V/I corners Analog or resistance programming of voltage and current



MODEL

**Agilent / Keysight
6011A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6011A

LISTING

<https://aumictechlabs.com/products/6011a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6011A is an autoranging DC power supply delivering up to 1064 W across a single output. It operates from 0 to 20 Vdc and 0 to 120 A, maintaining full rated power across continuous voltage-current combinations without manual range switching. This makes it well-suited for laboratory testing, production verification, and system integration work. Technical

Specifications Electrical Performance Output: 0–20 Vdc, 0–120 A Maximum power: 1064 W
Voltage ripple and noise: 8 mVrms, 50 mV peak-to-peak Current ripple and noise: 120 mA rms
Load regulation (voltage): 0.01% + 5 mV Load regulation (current): 0.01% + 15 mA Stability into
inductive loads: Up to 100 mH standard; optional modification supports loads up to 10 H Control &
Monitoring Ten-turn controls for voltage and current adjustment Dual 3 ½ digit front-panel meters
display output voltage and current Adjustable overvoltage protection (OVP) with front-panel trip-
level display Buffered monitor outputs: 0–5 Vdc representing voltage and current Analog remote
programming: 0–5 Vdc or 0–4000 Ω control signals Option 002 adds programmable remote/local
switching via 0–2 mA current sink and enhanced monitor outputsKey Features Autoranging
topology eliminates manual voltage/current range selection Remote sensing capability
compensates for up to 0.5 V drop per load lead (sense wires <0.2 Ω per lead) Either output
terminal floats or grounds to ± 240 V from chassis All rear-panel screw-terminal connections OVP
adjustment and verification without load disconnectionTypical Applications Device
characterization and burn-in testing Production test benches requiring wide voltage-current
coverage Inductive load testing and stability verification System integration with analog or
programmable controlCompatibility & Integration Remote programming and monitoring via analog
signals or Option 002 current-sink interface enable integration into automated test systems.
Remote sensing maintains regulation accuracy at distributed loads. Floating output supports
series-stack and back-to-back configurations.

6011A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Autoranging DC power supply
Series Family	HP Agilent 601× 602× 603x autorangers
Number of Outputs	1
GPIO Interface	No
Output Voltage Rating	0 to 20 V
Output Current Rating	0 to 120 A
Maximum Power	1072 W
Autoranging Corner V1 I	20 V, 50 A
Autoranging Corner V2 I	14 V, 76 A
Autoranging Corner V3 I	7 V, 120 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 15 mV
Programming Accuracy Current at 25 C	0.25 percent plus 250 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz	8 mV
Ripple Noise Voltage Peak Peak	50 mV
Ripple Noise Current RMS	120 mA
Load Regulation Voltage	3 mV
Load Regulation Current	15 mA
Line Regulation Voltage	2 mV
Line Regulation Current	25 mA
Transient Response Time 10 Percent Step	2 ms
Transient Response Level	100 mV
Programming Resolution Voltage	5 mV
Programming Resolution Current	30 mA
DC Floating Voltage	plus or minus 240 V from chassis

PARAMETER	VALUE
Remote Sensing Drop	up to 2 V per load lead; regulation met to 0.5 V drop
Analog Modulation Input	0 to 5 V or 0 to 4 kOhm
Size	425.5 mmWx 132.6 mmHx 516.4 mmDWeight Net: 17.2 kg (38 lb)
AC Input Current Class	24 A at 100/120 Vac class; 15 A at 220 Vac; 14 A at 240 Vac
Paired Family Column	6031A

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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Instrument Type	Autoranging DC power supply
Series Family	HP Agilent 601x 602x 603x autorangers
Number of Outputs	1
GPiB Interface	No
Output Voltage Rating	0 to 20 V
Output Current Rating	0 to 120 A
Maximum Power	1072 W
Autoranging Corner V1 I1	20 V, 50 A
Autoranging Corner V2 I2	14 V, 76 A
Autoranging Corner V3 I3	7 V, 120 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 15 mV
Programming Accuracy Current at 25 C	0.25 percent plus 250 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz: 8 mV	
Specifications	
PARAMETER	VALUE
Ripple Noise Voltage Peak Peak	50 mV
Ripple Noise Current RMS	120 mA
Load Regulation Voltage	3 mV
Load Regulation Current	15 mA
Line Regulation Voltage	2 mV
Line Regulation Current	25 mA
Transient Response Time 10 Percent Step	2 ms
Transient Response Level	100 mV
Programming Resolution Voltage	5 mV
Programming Resolution Current	30 mA

PARAMETER	VALUE
DC Floating Voltage	plus or minus 240 V from chassis
Remote Sensing Drop	up to 2 V per load lead; regulation met to 0.5 V drop
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Notes
Electrical rows from HP/Agilent Single-Output Autoranging 200 W to 1000 W catalog tables (system column twin 6031A).

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
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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.