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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6028A Autoranging DC Power Supply

Agilent 6028A Autoranging DC Power Supply 0 to 60 V 0 to 10 A 240 W The HP/Agilent 6028A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 60 V, 0 to 10 A, and 240 W, with corner points 60 V, 3.3 A; 40 V, 6 A; and 20 V, 10 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 6028A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 60 V, 0 to 10 A, and 240 W, with corner points 60 V, 3.3 A; 40 V, 6 A; and 20 V, 10 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
6028A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6028A

LISTING

<https://aumictechlabs.com/products/6028a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6028A is an autoranging DC power supply engineered to deliver stable, regulated power across research, development, and production test environments. Its autoranging

topology maximizes available power over a wide spectrum of voltage and current combinations, eliminating the single operating point constraint of conventional supplies. The instrument combines front-panel precision control with remote programming and sensing capabilities, making it suitable for both manual operation and automated test systems.

Technical Specifications

Maximum Output Voltage: 60 V Maximum Output Current: 10 A Maximum Power: 200 W Output Characteristic: Autoranging - delivers full 200 W across the entire voltage/current range Control: Front-panel interface with ten-turn potentiometers for voltage and current adjustment; remote programming via analog signals (0–5 V or 0–2500 Ω) Sensing: Remote voltage sensing with up to 2 V per load lead compensation Displays: Dual 3½-digit meters showing output voltage and current; push-button selection between operating values and overvoltage threshold Indicators: LED status for CV (Constant Voltage), CC (Constant Current), Unregulated, and Overvoltage conditions

Key Features

Overvoltage Protection (OVP): Front-panel adjustable threshold to interrupt output if preset voltage is exceeded Constant Current/Constant Voltage Mode: Automatic load protection under both conditions Auto-Series and Auto-Parallel Operation: Supported for extended capability Three-conductor AC mains connection with grounding required Environmental Rating: Installation Category II, Pollution Degree 2; maximum relative humidity 95%

Typical Applications Device characterization, component validation, bench testing, automated test sequences, and systems requiring flexible power delivery without range switching.

Compatibility & Integration Remote analog control enables integration into automated test platforms. Local and remote sensing modes accommodate standard lab and production configurations.

6028A 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 60 V
Output Current Rating	0 to 10 A
Maximum Power	240 W
Autoranging Corner V1 I	60 V, 3.3 A
Autoranging Corner V2 I	40 V, 6 A
Autoranging Corner V3 I	20 V, 10 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 40 mV
Programming Accuracy Current at 25 C	0.09 percent plus 10 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz	3 mV
Ripple Noise Voltage Peak Peak	30 mV
Ripple Noise Current RMS	5 mA
Load Regulation Voltage	3 mV
Load Regulation Current	5 mA
Line Regulation Voltage	2 mV
Line Regulation Current	2 mA
Transient Response Time 10 Percent Step	1 ms
Transient Response Level	75 mV
Programming Resolution Voltage	15 mV
Programming Resolution Current	2.5 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	212.3 mmWx 177.0 mmHx 516.4 mmDWeight Net: 9.6 kg (21 lb)
AC Input Current Class	6.0 A at 100 Vac; 6.5 A at 120 Vac; 3.8 A at 220 Vac; 3.6 A at 240 Vac
Paired Family Column	6038A

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
Electrical rows from HP/Agilent Single-Output Autoranging 200 W to 1000 W catalog tables (system column twin 6038A).

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.