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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6023A Autoranging DC Power Supply

Agilent 6023A Autoranging DC Power Supply 0 to 20 V 0 to 30 A 240 W The HP/Agilent 6023A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 20 V, 0 to 30 A, and 240 W, with corner points 20 V, 10 A; 14 V, 17.2 A; and 6.7 V, 30 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 6023A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 20 V, 0 to 30 A, and 240 W, with corner points 20 V, 10 A; 14 V, 17.2 A; and 6.7 V, 30 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
6023A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6023A

LISTING

<https://aumictechlabs.com/products/6023a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6023A is a 200 W autoranging DC power supply engineered for R&D, production testing, and laboratory applications. It delivers full rated power across a continuous

range of voltage and current combinations without manual range switching, eliminating the need for predefined output configurations. The unit combines front-panel control with remote programming capability, making it suitable for both hands-on bench work and integrated test systems.

Technical Specifications Output voltage ranges from 0 to 20 V with current capability to 30 A, providing 200 W maximum power. The autoranging topology ensures full 200 W availability across any valid voltage-current pair within these limits. Three-and-a-half-digit displays continuously indicate output voltage and current in real time.

Key Features Autoranging output maintains full 200 W power across the entire voltage and current operating envelope Constant voltage/constant current (CV/CC) protection with automatic crossover and overvoltage/overcurrent defense Ten-turn potentiometers enable fine adjustment of voltage and current setpoints Remote programming and sensing for external control and load-lead voltage drop compensation Auto-series and auto-parallel operation support multiple-unit configurations for extended voltage or current capability Four-state LED indicators show operating mode: CV, CC, unregulated, or overvoltage protection active Overvoltage protection (OVP) interrupts power transfer when output exceeds a preset threshold, safeguarding connected loads

Performance Load regulation for voltage is specified at 0.5 mV. Constant voltage ripple and noise measures 500 μ V RMS. The instrument accepts both direct front-panel adjustment and remote control signals for flexible system integration.

Compatibility & Integration Remote sensing terminals allow compensation for voltage drops across load leads, improving regulation accuracy in distributed power architectures. Auto-series and auto-parallel modes enable stacking of multiple 6023A units to achieve higher output voltages or currents while maintaining unified control.

6023A 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 30 A
Maximum Power	240 W
Autoranging Corner V1 I	20 V, 10 A
Autoranging Corner V2 I	14 V, 17.2 A
Autoranging Corner V3 I	6.7 V, 30 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 9 mV
Programming Accuracy Current at 25 C	0.15 percent plus 20 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz	3 mV
Ripple Noise Voltage Peak Peak	30 mV
Ripple Noise Current RMS	30 mA
Load Regulation Voltage	2 mV
Load Regulation Current	9 mA
Line Regulation Voltage	1 mV
Line Regulation Current	6 mA
Transient Response Time 10 Percent Step	1 ms
Transient Response Level	50 mV
Programming Resolution Voltage	5 mV
Programming Resolution Current	7.5 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	6033A

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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PARAMETER	VALUE
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 30 A
Maximum Power	240 W
Autoranging Corner V1 I1	20 V, 10 A
Autoranging Corner V2 I2	14 V, 17.2 A
Autoranging Corner V3 I3	6.7 V, 30 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 9 mV
Programming Accuracy Current at 25 C	0.15 percent plus 20 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz: 3 mV	
Specifications	
PARAMETER	VALUE
Ripple Noise Voltage Peak Peak	30 mV
Ripple Noise Current RMS	30 mA
Load Regulation Voltage	2 mV
Load Regulation Current	9 mA
Line Regulation Voltage	1 mV
Line Regulation Current	6 mA
Transient Response Time 10 Percent Step	1 ms
Transient Response Level	50 mV
Programming Resolution Voltage	5 mV
Programming Resolution Current	7.5 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
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	6033A

Notes
Electrical rows from HP/Agilent Single-Output Autoranging 200 W to 1000 W catalog tables (system column twin 6033A). OEM notes CC stability to 1 H inductive loads for 6023A/6028A.

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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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.