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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6012A Adjustable Dc Power Supply 0-60v

Agilent 6012A Autoranging DC Power Supply 0 to 60 V 0 to 50 A 1200 W The HP/Agilent 6012A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 60 V, 0 to 50 A, and 1200 W, with corner points 60 V, 17.5 A; 40 V, 30 A; and 20 V, 50 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 6012A is a single-output autoranging DC power supply. OEM autoranging family tables rate 0 to 60 V, 0 to 50 A, and 1200 W, with corner points 60 V, 17.5 A; 40 V, 30 A; and 20 V, 50 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
6012A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6012A

LISTING

<https://aumictechlabs.com/products/6012a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6012A is an autoranging DC power supply delivering up to 1000 W across a continuous 0–60 Vdc output range. The unit automatically adjusts voltage and current within its

power envelope, eliminating manual range selection. Ten-turn potentiometers provide precise control, while large digital displays and status LEDs (CV, CC, Unregulated, Overvoltage) enable real-time monitoring. Maximum output current reaches 50 A with load regulation of 0.01% $\pm$ 5 mV (voltage) and 0.01% $\pm$ 15 mA (current). Ripple and noise performance is specified at 8 mV rms / 50 mV peak-peak (voltage) and 120 mA rms (current). Technical Specifications Output Power: 1000 W maximum Output Voltage: 0 to 60 Vdc Output Current: 0 to 50 A Voltage Ripple and Noise: 8 mV rms / 50 mV peak-peak Current Ripple: 120 mA rms Load Regulation: 0.01% $\pm$ 5 mV (voltage); 0.01% $\pm$ 15 mA (current) Input Voltage: 120, 220, or 240 Vac ($\pm$ 13%, +6%) Input Frequency: 48–63 Hz Maximum Input Current: 24 A rms (120 Vac), 15 A rms (220 Vac), 14 A rms (240 Vac) Efficiency: Typically 80% at maximum output power Key Features Autoranging output maintains optimal voltage/current within power envelope Adjustable overvoltage protection (OVP) safeguards connected loads Remote programming via six-position MODE switch (front panel, remote voltage, or remote resistance control) Local or remote voltage sensing capability Input protection: 25 A rear-panel circuit breaker Class 1 safety classification with protective earth terminal Compact, lightweight construction rated for indoor Installation Category II use Typical Applications Electronics testing and component evaluation System integration and automated test systems DC load characterization across wide voltage/current ranges Compatibility & Integration Systems option (002): Provides resistance, voltage, and current programming Rack Mount Flange Kit without Handles (908) Rack Mount Flange Kit with Handles (909)

6012A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Autoranging DC power supply
Series Family	HP Agilent 601× 602× 603x autorangers
Number of Outputs	1
GPIB Interface	No
Output Voltage Rating	0 to 60 V
Output Current Rating	0 to 50 A
Maximum Power	1200 W
Autoranging Corner V1 I	60 V, 17.5 A
Autoranging Corner V2 I	40 V, 30 A
Autoranging Corner V3 I	20 V, 50 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 40 mV
Programming Accuracy Current at 25 C	0.2 percent plus 85 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz	5 mV
Ripple Noise Voltage Peak Peak	40 mV
Ripple Noise Current RMS	25 mA
Load Regulation Voltage	5 mV
Load Regulation Current	10 mA
Line Regulation Voltage	3 mV
Line Regulation Current	10 mA
Transient Response Time 10 Percent Step	2 ms
Transient Response Level	100 mV
Programming Resolution Voltage	15 mV
Programming Resolution Current	12.5 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	425.5 mmWx 132.6 mmHx 516.4 mmDWeight Net: 16.3 kg (36 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	6032A

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
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GPiB Interface	No
Output Voltage Rating	0 to 60 V
Output Current Rating	0 to 50 A
Maximum Power	1200 W
Autoranging Corner V1 I1	60 V, 17.5 A
Autoranging Corner V2 I2	40 V, 30 A
Autoranging Corner V3 I3	20 V, 50 A
Programming Accuracy Voltage at 25 C	0.035 percent plus 40 mV
Programming Accuracy Current at 25 C	0.2 percent plus 85 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz: 5 mV	
Specifications	
PARAMETER	VALUE
Ripple Noise Voltage Peak Peak	40 mV
Ripple Noise Current RMS	25 mA
Load Regulation Voltage	5 mV
Load Regulation Current	10 mA
Line Regulation Voltage	3 mV
Line Regulation Current	10 mA
Transient Response Time 10 Percent Step	2 ms
Transient Response Level	100 mV
Programming Resolution Voltage	15 mV
Programming Resolution Current	12.5 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	425.5 mmWx 132.6 mmHx 516.4 mmDWeight Net: 16.3 kg (36 lb)
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Notes

Electrical rows from HP/Agilent Single-Output Autoranging 200 W to 1000 W catalog tables (system column twin 6032A). Catalog tables list 6012B beside 6032A; 6012A shares the same 60 V / 50 A / 1200 W autoranging envelope in OEM family literature.

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.