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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6012B DC Power Supply 60V/50A Auto Range

Agilent 6012B Autoranging DC Power Supply 0 to 60 V 0 to 50 A 1200 W The HP/Agilent 6012B 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 6012B 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
6012B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6012B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6012B is a 1200 W autoranging DC power supply delivering 0–60 Vdc at 0–50 A without manual range switching. Built for production testing, burn-in operations, and

component characterization, it combines precise voltage and current control with full output power across any voltage–current combination within its rating. Ten-turn potentiometers enable fine adjustment. Three-and-a-half digit front-panel meters display voltage and current in real time, eliminating the need for external DVMs in many test scenarios.

Technical Specifications

Output: Voltage: 0–60 Vdc Current: 0–50 A Maximum power: 1200 W Connections: Rear-panel screw-on terminals Output isolation: Either terminal floats ± 240 Vdc from chassis ground

Regulation & Stability: Load regulation (voltage): 0.01% + 5 mV; (current): 0.01% + 15 mA Line regulation (voltage): 0.01% + 5 mV; (current): 0.01% + 15 mA Ripple and noise (voltage rms): 8 mV; (peak-peak): 50 mV Ripple and noise (current rms): 120 mA Temperature coefficient (voltage): 80 ppm + 1 mV/°C; (current): 100 ppm + 2 mA/°C

Input: Voltage: 104–127 Vac, 120 Vac $\pm 6\%$, 220 Vac $+6\%$ / -13% , or 240 Vac $+6\%$ / -13% Frequency: 48–63 Hz Single phase Switching converter: 20 kHz

Key Features

- Autoranging delivers maximum power across all voltage–current operating points
- Overvoltage protection with front-panel trip-level setting and metering
- Remote programming via 0–5 V or 0–4000 Ω analog signals
- Remote sensing compensates for load-lead voltage drops
- Buffered 0–5 V monitor outputs track voltage and current levels
- Auto-parallel and auto-series operation for extended output flexibility
- Inductive load operation to 1 H standard; Option J01 extends to 10 H

Typical Applications Production testing, burn-in testing, electronic component characterization, and development work requiring stable, programmable DC power with protection and real-time monitoring.

Compatibility & Integration Remote programming and sensing enable integration into automated test systems. Monitor outputs support external data logging and system feedback. Configuration options accommodate international input voltages and specialized inductive load requirements.

6012B 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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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
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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.