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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6033A Power Supply, 20V, 30A 200W

HP Agilent 6033A Autoranging System DC Power Supply The Agilent 6033A is a half-rack single-output autoranging GPIB DC power supply in the 200 W class 603xA family. OEM datasheet ratings are 0 to 20 V and 0 to 30 A with 242 W maximum power, autoranging corners at 20 V/10 A, 14 V/17.2 A, and 6.7 V/30 A, plus built-in measurements and analog programming. Low-voltage high-current ATE bias, burn-in and power-device characterization at up to 30 A, and multi-supply serial-link systems sharing one GPIB address in half-rack density. The Agilent 6033A is a half-rack single-output autoranging GPIB DC power supply in the 200 W class 603xA family. OEM datasheet ratings are 0 to 20 V and 0 to 30 A with 242 W maximum power, autoranging corners at 20 V/10 A, 14 V/17.2 A, and 6.7 V/30 A, plus built-in measurements and analog programming. Low-voltage high-current ATE bias, burn-in and power-device characterization at up to 30 A, and multi-supply serial-link systems sharing one GPIB address in half-rack density. Autoranging output maximizing power across voltage settings



MODEL

**Agilent / Keysight
6033A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6033A

LISTING

<https://aumictechlabs.com/products/6033a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6033A is a 200W autoranging DC power supply engineered for demanding test and measurement systems. It delivers 0–20V and 0–30A across three autoranging output configurations, with maximum power output of 240W. The unit operates in constant voltage and constant current modes, supported by precise programming and readback accuracies. Voltage programming accuracy is 0.035% + 9 mV; current programming accuracy is 0.15% + 20 mA. Readback accuracy for voltage is 0.07% + 6 mV and for current is 0.3% + 25 mA, all measured at 25°C ±5°C. Output noise is kept to 3 mV RMS and 30 mV peak-to-peak across the 20 Hz to 20 MHz band, with current ripple at 30 mA RMS.

Technical Specifications

Parameter	Value
Output Ratings	Voltage: 0–20V DC Current: 0–30A DC Maximum Power: 240W
Autoranging configurations	20V/10A, 14V/17.2A, 6.7V/30A
Accuracy (at 25°C ±5°C)	Voltage programming: 0.035% + 9 mV Current programming: 0.15% + 20 mA Voltage readback: 0.07% + 6 mV Current readback: 0.3% + 25 mA
Output Noise (20 Hz–20 MHz)	Voltage RMS: 3 mV Voltage peak-to-peak: 30 mV Current RMS: 30 mA
Input & Environmental	Input voltage: 120V AC Operating humidity: up to 95% relative humidity Operating altitude: up to 2000 meters Installation category II; pollution degree 2
Physical Dimensions	212.3 mm (W) × 177.0 mm (H) × 516.4 mm (D)

Key Features

- Autoranging output across three voltage/current ranges
- Constant voltage and constant current operation modes
- Built-in output voltage and current measurements
- Overvoltage and overcurrent protection
- Analog/resistance control for output programming

Integration & Control

The 6033A integrates via GPIB interface with full SCPI command support and VXI Plug & Play drivers. Multiple supplies can be connected through a single GPIB address using the serial link option, supporting up to 16 units in series or auto-parallel configurations for extended voltage and current capability.

6033A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIB	Yes
Output Voltage	0 to 20 V
Output Current	0 to 30 A
Maximum Power	242 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 Current	0.15% + 20 mA
Ripple Voltage RMS 20 Hz to 20 MHz	3 mV
Ripple Voltage Peak to Peak	30 mV
Ripple Current RMS	30 mA
Readback Accuracy Voltage	0.07% + 6 mV
Readback Accuracy Current	0.3% + 25 mA
Load Regulation Voltage	0.01% + 2 mV
Load Regulation Current	0.01% + 9 mA
Line Regulation Voltage	0.01% + 1 mV
Line Regulation Current	0.01% + 6 mA
Programming Resolution Voltage	5 mV
Programming Resolution Current	7.5 mA
Transient Response Time	1 ms
Transient Response Level	50 mV
DC Floating Voltage	±240 V
Size	212.3 mmWx 177.0 mmHx 516.4 mmDNet Weight: 9.6 kg (21 lb)
Shipping Weight	11.4 kg (25 lb)

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	
Specifications	
PARAMETER	VALUE
Number of Outputs	1
GPIB	Yes
Output Voltage	0 to 20 V
Output Current	0 to 30 A
Maximum Power	242 W
Autorangeing Corner V1 I1	20 V, 10 A
Autorangeing Corner V2 I2	14 V, 17.2 A
Autorangeing Corner V3 I3	6.7 V, 30 A
Programming Accuracy Voltage 25±5 C: 0.035% + 9 mV	
Programming Accuracy Current: 0.15% + 20 mA	
Ripple Voltage RMS 20 Hz to 20 MHz: 3 mV	
Specifications	
PARAMETER	VALUE
Ripple Voltage Peak to Peak	30 mV
Ripple Current RMS	30 mA
Readback Accuracy Voltage	0.07% + 6 mV
Readback Accuracy Current	0.3% + 25 mA
Load Regulation Voltage	0.01% + 2 mV
Load Regulation Current	0.01% + 9 mA
Line Regulation Voltage	0.01% + 1 mV
Line Regulation Current	0.01% + 6 mA
Programming Resolution Voltage	5 mV
Programming Resolution Current	7.5 mA
Transient Response Time	1 ms
Transient Response Level	50 mV
DC Floating Voltage	±240 V

PARAMETER	VALUE
Size	212.3 mmWx 177.0 mmHx 516.4 mmDNet Weight: 9.6 kg (21 lb)
Shipping Weight	11.4 kg (25 lb)

Notes
Specs from Agilent 6030A Series Autoranging 200 and 1000 W DC Power Supplies data sheet 5990-9297EN, 6033A column.

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.