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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6633B DC Power Supply

HP Agilent 6633B System DC Power Supply 50 V 2 A The Agilent/Keysight 6633B is a single-output linear-regulated GPIB DC power supply in the 6630B series. OEM datasheet ratings are 0 to 50 V and 0 to 2 A with full-current active downprogramming, dual-range microamp measurement, and SCPI control. Fast ATE 50 V class bias with microamp readback, R&D bench work, and GPIB automated sourcing with stored states. Active downprogrammer sinks full rated 2 A The Agilent/Keysight 6633B is a single-output linear-regulated GPIB DC power supply in the 6630B series. OEM datasheet ratings are 0 to 50 V and 0 to 2 A with full-current active downprogramming, dual-range microamp measurement, and SCPI control. Fast ATE 50 V class bias with microamp readback, R&D bench work, and GPIB automated sourcing with stored states. Active downprogrammer sinks full rated 2 A Dual range precision low current measurement



MODEL

**Agilent / Keysight
6633B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6633B

LISTING

<https://aumictechlabs.com/products/6633b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6633B is a 100 W single-output DC power supply delivering 0–50 V at 0–2 A with series-pass regulation and programmable control via GPIB/RS-232. Designed for automated testing, system integration, and bench applications, this unit combines fast transient response, precision measurement, and active output discharge in a compact 425.5 mm × 88.1 mm × 364.4 mm form factor. Technical Specifications Output Ratings Voltage: 0 to 50 V Current: 0 to 2 A

Power: 100 W Programming Accuracy (25°C ±5°C) Voltage: ±20 mV Current: ±0.05% + 1 mA
Ripple and Noise (20 Hz to 20 MHz) Normal Mode voltage RMS: 0.5 mV; peak-to-peak: 3 mV Fast
Mode voltage RMS: 1 mV; peak-to-peak: 15 mV Current RMS: 2 mA Response and Settling
Standard rise/fall time (10/90%): <2 ms Fast mode rise/fall time: 400 µs Voltage settling (within 1
LSB): <6 ms standard, 2 ms fast mode Command processing time: 4 ms Measurement cycle time:
50 ms average Load and Line Regulation Voltage load regulation: 2 mV Current load regulation: 1
mA Voltage line regulation: 1 mV Current line regulation: 0.25 mA

Key Features Active
downprogrammer sinks rated current for rapid zero-volt discharge Built-in DVM and precision
current shunt for real-time measurement Dual-range low-current measurement with microamp
resolution SCPI command support via GPIB or RS-232 VXi plug&play drivers for streamlined
system integration Multiple AC input options (100/120/220/230 VAC, 47–63 Hz)

Typical Applications Design verification, prototype validation, component characterization, automated test
systems, and manufacturing burn-in processes requiring stable, precise DC sourcing with
integrated measurement feedback.

Compatibility & Integration HP-IB (GPIB) with SCPI command
set. Optional front-panel binding posts, isolation/reversal relays, rack-mount kit, documentation
package, and service manual available.

6633B Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 50 V
Output Current Rating	0 to 2 A
Programming Accuracy Voltage	20 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.05% + 1 mA at 25 C plus or minus 5 C
Ripple Voltage Normal Mode RMS	0.5 mV (20 Hz to 20 MHz)
Ripple Voltage Normal Mode Peak to Peak	3 mV
Ripple Voltage Fast Mode RMS	1 mV
Ripple Voltage Fast Mode Peak to Peak	15 mV
Ripple Current RMS	2 mA
DC Measurement Accuracy Voltage	0.03% + 6 mV
Low Current Measurement Accuracy	0.1% + 2.5 uA from minus 20 mA to +20 mA
High Current Measurement Accuracy Positive	0.2% + 0.25 mA
High Current Measurement Accuracy Negative	0.2% + 0.85 mA
Load Regulation Voltage	4 mV
Load Regulation Current	1 mA
Line Regulation Voltage	1 mV
Line Regulation Current	0.25 mA
Transient Response Time	less than 100 us (50 us fast mode) for up to 50% current step
Programming Resolution Voltage	12.5 mV
Programming Resolution Current	0.5 mA
Sink Current	2 A
Command Processing Time	4 ms average (display disabled)

PARAMETER	VALUE
Output Rise Fall Time	less than 2 ms (400 us fast mode)
Output Settle Time	less than 6 ms (2 ms fast mode) to 1 LSB
Measurement Time Average	50 ms
Output Terminal Isolation	plus or minus 240 Vdc from chassis ground
Size	425.5 mmWx 88.1 mmHx 364.4 mmDNet Weight: 12.7 kg (28 lb)
Input Power Full Load	3.5 A, 250 W

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
Specs from Agilent/Keysight 6630B Series data sheet column for 6633B.

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.