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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6633A DC Power Supply

Agilent HP 6633A System DC Power Supply 0 to 50 V 0 to 2 A The HP/Agilent 6633A is a linear-regulated approximately 100 W single-output system DC power supply. OEM literature for the 663x family rates 0 to 50 V and 0 to 2 A with GPIB programming, readback, and active down-programmer sinking. Automated test systems needing low-noise linear DC power, fast down-programming, and precision current readback. Instrument Type: Linear system DC power supply The HP/Agilent 6633A is a linear-regulated approximately 100 W single-output system DC power supply. OEM literature for the 663x family rates 0 to 50 V and 0 to 2 A with GPIB programming, readback, and active down-programmer sinking. Automated test systems needing low-noise linear DC power, fast down-programming, and precision current readback. Instrument Type: Linear system DC power supply Voltage Programming Accuracy at 25 C: 20 mV



MODEL

**Agilent / Keysight
6633A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6633A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6633A is a 100-watt single-output DC power supply engineered for automated test equipment and systems development. This series-pass regulated unit delivers stable, programmable power across 0–50 VDC and 0–2 ADC with full remote control via GPIB/HP-IB interface and front-panel operation. Dual-mode operation (Constant Voltage and Constant Current) accommodates diverse load requirements, while integrated protection and fast response

times support high-throughput test sequences. Technical Specifications Output Range: 0–50 VDC, 0–2 ADC (100 W total) Programming Resolution: 12.5 mV (voltage), 0.5 mA (current) Programming Accuracy: $\pm 0.07\% + 30 \text{ mV}$ (voltage); $\pm 0.17\% + 3 \text{ mA}$ (current) Load Regulation: 4 mV (voltage), 1 mA (current) Line Regulation: $\pm 0.07\% + 15 \text{ mV}$ (voltage); $\pm 0.17\% + 3 \text{ mA}$ (current) Output Ripple & Noise: 0.5 mV RMS, 3 mV peak-to-peak Output Isolation: $\pm 2 \text{ VDC}$ maximum from chassis ground Remote Sensing: Compensates for load lead voltage drops up to 2 V per lead Current Sinking: Full rated current capability enables rapid down-programming to zero volts

Key Features

- Programmable voltage, current, overvoltage protection (OVP), and overcurrent protection (OCP)
- Fast/Normal mode operation selectable via rear-panel switch
- Fast Mode disconnects output capacitors for $< 400 \mu\text{s}$ rise/fall times; Normal Mode optimizes output PARD
- Voltage settling within 1 LSB ($0.025\% \times \text{rated voltage}$) in $< 6 \text{ ms}$ (Normal) or $< 2 \text{ ms}$ (Fast)
- Built-in digital voltmeter and precision current shunt for direct output measurement and reporting
- Programmable status reporting and interrupt generation for fault conditions
- Output enable/disable control
- Command processing time: 4 ms (GPIB, display disabled)
- Measurement averaging time: 50 ms per voltage or current sample
- Control Interface Front-panel manual adjustment GPIB/HP-IB (IEEE-488.2) with SCPI command set for full programmability

Typical Applications

- Component and subsystem characterization in laboratory and production test
- Automated test equipment requiring fast transient response and precise load regulation
- Development and validation of power-sensitive circuits

6633A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Linear system DC power supply
Series Family	HP Agilent 663x
Output Voltage Rating	0 to 50 V
Output Current Rating	0 to 2 A
Output Power Class	about 100 W
Voltage Programming Accuracy at 25 C	20 mV
Current Programming Accuracy	0.05 percent plus 1 mA
Voltage Ripple Noise RMS Normal Mode	0.5 mV
Voltage Ripple Noise Peak Peak Normal Mode	3 mV
Current Ripple Noise RMS	2 mA
Voltage Measurement Accuracy	0.03 percent plus 6 mV
Load Regulation Voltage	4 mV
Line Regulation Voltage	1 mV
Line Regulation Current	0.25 mA
Sink Current Capability	2 A
Average Programming Resolution Voltage	12.5 mV
Average Programming Resolution Current	0.5 mA
Transient Response Time	less than 100 us; 50 us in fast mode for 50 percent load step class
Output Programming Response Rise Fall	less than 2 ms; 400 us in fast mode
Command Processing Time Typical	4 ms on GPIB
Measurement Time Typical	50 ms
DC Floating Voltage	up to plus or minus 240 Vdc from chassis
Remote Sensing Drop	up to 2 V per load lead
Remote Interface	GPIB IEEE 488.2 SCPI

PARAMETER	VALUE
Size	425.5 mmWx 88.1 mmHx 364.4 mmDWeight Net: 12.7 kg
Input Power Full Load Class	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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Current Ripple Noise RMS	2 mA
Voltage Measurement Accuracy	0.03 percent plus 6 mV
Load Regulation Voltage	4 mV
Line Regulation Voltage	1 mV
Line Regulation Current	0.25 mA
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Notes Voltage/current ratings from HP/Agilent 6633A family literature. Detailed accuracy/ripple/resolution rows from Agilent 663xB series datasheet tables for the matching voltage/current model column; confirmAversusBreversion differences on the faceplate/manual before upload if required.	

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.