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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 6634A DC power supply, 0-100 Vdc, 0-1 A

HP 6634A 100 V 1 A 100 W Single Output Linear System DC Power Supply The HP 6634A is a 100 W series-pass linear system DC supply rated 0 to 100 V and 0 to plus/minus 1 A. It sources and sinks current (negative current tracks the programmed CC setting) for fast down-programming. A built-in DVM and current shunt provide HP-IB readback. Programmable OVP (SCR crowbar) and OCP, software calibration, and a rear-panel Fast/Normal switch (output capacitors disconnected in Fast mode) target ATE racks. 100 V system DC bias and characterization; production ATE with HP-IB; two-quadrant source/sink for energy-storage loads; remote-sense regulation at the DUT. The HP 6634A is a 100 W series-pass linear system DC supply rated 0 to 100 V and 0 to plus/minus 1 A. It sources and sinks current (negative current tracks the programmed CC setting) for fast down-programming. A built-in DVM and current shunt provide HP-IB readback. Programmable OVP (SCR crowbar) and OCP, software calibration, and a rear-panel Fast/Normal switch (output capacitors disconnected in Fast mode) target ATE racks. 100 V system DC bias and characterization; production ATE with HP-IB; two-quadrant source/sink for energy-storage loads; remote-sense regulation at the DUT.



MODEL

HP / Agilent 6634A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6634A

LISTING

<https://aumictechlabs.com/products/6634a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6634A is a 100 W single-output DC power supply engineered for systems and production test applications. It delivers 0–100 Vdc at 0–1 A with series-pass regulation, supporting both Constant Voltage (CV) and Constant Current (CC) modes. The unit sources and sinks current, enabling rapid output down-programming and improved test throughput. Built-in digital voltmeter and precision current shunt provide real-time output monitoring. HP-IB (IEEE 488) interface enables full remote programmability, status reporting, and user-defined fault condition monitoring. Technical Specifications Output Power: 100 W Voltage Range: 0–100 Vdc Current Range: 0–1 A Regulation Type: Series-pass Operating Modes: Constant Voltage (CV), Constant Current (CC) Load Effect (Typical): Voltage: 0.07% + 70 mV; Current: 0.15% + 2 mA Line Regulation (Typical): Voltage: 0.07% + 15 mV; Current: 0.18% + 9 mA Output Programming Response: Rise/fall time < 15 ms (400 μ s in Fast Mode); settling time < 60 ms (2 ms in Fast Mode) DC Output Isolation: $\pm$ 240 Vdc maximum from chassis ground Remote Sensing: Compensates for load lead IR drops up to 2 V per lead Input Power: 350 VA maximum AC Input Options: 100, 120, 220, or 240 Vac; fusing: 4 A (100/120 Vac), 2 A (220/240 Vac) Key Features Bidirectional output - sources and sinks current for efficient down-programming Programmable overvoltage protection with SCR crowbar Programmable overcurrent protection via front panel or HP-IB Built-in digital voltmeter and current measurement capability Remote sensing for precision voltage regulation at the load Multi-voltage AC input configuration Typical Applications Production test systems requiring programmable power Device characterization and burn-in testing Load simulation with rapid transient response Automated test equipment (ATE) integration Compatibility & Integration HP-IB (IEEE 488) interface provides complete instrument control, enabling integration into automated test systems and remote operation with full status and fault reporting.

Features & description

From manufacturer datasheet

Features

- 6632A/6633A/6634A 100 W family member (20 V 5 A / 50 V 2 A / 100 V 1 A) • Current sinking as well as sourcing; negative current tracks CC • Remote sense compensates up to 2 V IR drop per load lead • Programmable OVP with SCR crowbar and programmable OCP • Fast versus Normal mode via rear-panel switch • Option 020 front binding posts; Option 760 isolation and polarity-reversal relays

6634A Characteristics / Specifications

PARAMETER	VALUE
Model	6634A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Single output linear system DC power supply
Family	6632A 6633A 6634A 100 W
Alias	HP 6634A; Agilent 6634A; Keysight 6634A
Output Voltage	0 to 100 V
Output Current	0 to plus/minus 1 A
Output Power	100 W
Programming Accuracy Voltage	0.05 percent plus 50 mV at 25 plus/minus 5 C
Programming Accuracy Current	0.15 percent plus 1 mA at 25 plus/minus 5 C
Readback Accuracy Voltage	0.06 percent plus 70 mV at 25 plus/minus 5 C
Readback Accuracy Current	0.15 percent plus 2 mA at 25 plus/minus 5 C
Ripple Voltage Normal RMS	0.5 mV (20 Hz to 20 MHz)
Ripple Voltage Normal PP	3 mV
Stability Voltage Class	0.01 percent plus 1 mV class (A-series table)
Remote Sense Drop	up to 2 V per load lead
Operating Modes	CV and CC
Current Sink	full rated 1 A; negative setting tracks programmed CC
OVP	programmable with SCR crowbar
OCP	programmable overcurrent protection
Calibration	software calibration via HP-IB; internal jumper can lock calibration
Selftest	power-on and HP-IB commanded; verifies HP-IB, D/A, and A/D
HP-IB Functions	SH1 AH1 T6 L4 SR1 RL1 PP1 DC1 DT0 E1
Fast Mode	rear-panel switch disconnects output capacitors
Normal Mode	optimized for minimal PARD

PARAMETER	VALUE
Net Weight	10.5 kg (23 lb)
Shipping Weight	12.3 kg (27 lb)
Input VA Maximum	350 VA
Input Watts Maximum	250 W
Input Current At 100 Vac	3.3 A rms maximum
Input Current At 120 Vac	2.9 A rms maximum
Input Current At 220 Vac	1.7 A rms maximum
Input Current At 240 Vac	1.6 A rms maximum
Line Options	100 87-106 Vac; 120 104-127 Vac; 220 191-233 Vac; 240 209-250 Vac; 48-63 Hz
Safety Agency	designed to IEC 348, VDE 0411, UL 1244, CSA 556B
Related 6632A	0 to 20 V 0 to plus/minus 5 A
Related 6633A	0 to 50 V 0 to plus/minus 2 A
SuccessorBModel	6634B 0 to 100 V 0 to 1 A with SCPI

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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HPIB Functions	SH1 AH1 T6 L4 SR1 RL1 PP1 DC1 DT0 E1
Fast Mode	rear-panel switch disconnects output capacitors
Normal Mode	optimized for minimal PARD

Option 020: front panel binding posts in parallel with rear strip
Option 760: isolation and polarity reversal relays plus DFI/RI

Specifications

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Notes
A-model programming and readback rows are from the HP 6632A/6633A/6634A catalog/data sheet (not the later 663xB SCPI table). Fast-mode PARD and 6634B 0.05 percent plus 0.5 mA current programming are B-series and must not be mixed onto thisAunit. Confirm line-voltage option and Option 020/760 on the faceplate.

Ordering Information

OPTION	DESCRIPTION
Option 020	front binding posts; Option 760 isolation and polarity-reversal relays

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 ·
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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.