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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6624A DC Power Supply, 2 Outputs at 7V/5A, 2 Outputs at 20V/2A

HP Agilent 6624A Quad Output System DC Power Supply The Agilent 6624A provides four isolated dual-range outputs: two 40 W low-voltage (0-7 V/5 A or 0-20 V/2 A) and two 40 W high-voltage (0-20 V/2 A or 0-50 V/0.8 A) per OEM operating manual. It is the four-rail linear GPIB member of the 6620A series. Four-rail DUT bias, dense ATE power in one 3U box, and GPIB sequencing of multiple isolated supplies. Outputs 1 and 2 Low Range: 0 to 7 V, 0 to 5 A The Agilent 6624A provides four isolated dual-range outputs: two 40 W low-voltage (0-7 V/5 A or 0-20 V/2 A) and two 40 W high-voltage (0-20 V/2 A or 0-50 V/0.8 A) per OEM operating manual. It is the four-rail linear GPIB member of the 6620A series. Four-rail DUT bias, dense ATE power in one 3U box, and GPIB sequencing of multiple isolated supplies. Outputs 1 and 2 Low Range: 0 to 7 V, 0 to 5 A Outputs 1 and 2 High Range: 0 to 20 V, 0 to 2 A



MODEL

HP / Agilent 6624A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6624A

LISTING

<https://aumictechlabs.com/products/6624a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6624A is a four-output DC power supply engineered for system integration and benchtop test applications. It delivers fully isolated, independently controlled outputs with dual-range capability and low-noise performance across all channels. The 3U package integrates GPIB control for automated test sequences, making it suitable for development labs, production testing,

and integrated systems requiring precise, flexible power distribution. Technical Specifications

Output Configuration Four fully isolated outputs with dual-range operation Outputs 1 & 2: 0–7 V at 0–5 A (low range); 0–20 V at 0–2 A (high range) Outputs 3 & 4: 0–20 V at 0–2 A (low range); 0–50 V at 0–0.8 A (high range) Total output power: Up to 105 W across all channels Outputs support series and parallel connection for increased voltage or current capability

Programming Accuracy (at 25°C ±5°C) Voltage (7 V/5 A range): ±(0.06% of setting + 19 mV) Voltage (20 V/2 A and 50 V/0.8 A ranges): ±(0.06% of setting + 50 mV) Current (7 V/5 A range): ±(0.16% of setting + 50 mA) Current (20 V/2 A and 50 V/0.8 A ranges): ±(0.16% of setting + 20 mA)

Readback Accuracy (at 25°C ±5°C) Voltage (7 V/5 A and 20 V/2 A ranges): ±(0.05% of reading + 20 mV) Voltage (50 V/0.8 A range): ±(0.05% of reading + 50 mV) Current (7 V/5 A and 20 V/2 A ranges): ±(0.1% of reading + 10 mA) Current (50 V/0.8 A range): ±(0.1% of reading + 4 mA)

Negative current readback (7 V/5 A and 20 V/2 A): ±(0.2% of reading + 25 mA) Negative current readback (50 V/0.8 A): ±(0.2% of reading + 8 mA)

Noise and Regulation Ripple and noise (20 Hz to 20 MHz): ≤500 µV RMS, ≤3 mV peak-to-peak Constant current noise: ≤1 mA RMS Load regulation (voltage): ≤0.5 mV Line regulation (voltage): ≤0.5 mV Cross regulation (7 V/5 A outputs): ≤0.25 mV; (20 V/2 A outputs): ≤1 mV

Remote sensing supported with up to 1 V drop per load lead

Key Features Dual-range outputs automatically select appropriate voltage/current ranges GPIB interface for remote programming and monitoring Low-noise outputs suitable for sensitive analog and RF applications Independent output control enables parallel and series configurations Remote sensing compensates for voltage drop in load leads

Features & description

From manufacturer datasheet

Built-in readback and downprogramming

Shared series sense and float ratings Technical Specifications Number of Outputs: 4 Outputs 1 and 2 Type: 40 W Low Voltage Outputs 1 and 2 Low Range: 0 to 7 V, 0 to 5 A Outputs 1 and 2 High Range: 0 to 20 V, 0 to 2 A Outputs 3 and 4 Type: 40 W High Voltage Outputs 3 and 4 Low Range: 0 to 20 V, 0 to 2 A Outputs 3 and 4 High Range: 0 to 50 V, 0 to 0.8 A Voltage Programming Accuracy Low 40 W: 0.06% + 19 mV Voltage Programming Accuracy High 40 W: 0.06% + 50 mV Current Programming Accuracy Low 40 W: 0.16% + 50 mA Current Programming Accuracy High 40 W: 0.16% + 20 mA CV Ripple RMS: 500 μ V CV Ripple Peak to Peak: 3 mV CC Ripple RMS: 1 mA Load Regulation Voltage: 2 mV DC Floating Voltage: $\pm$ 240 Vdc Remote Sense: up to 1 V per load lead Command Processing Time: 7 ms typical Input Power: 550 W max, 720 VA max Size: 425.5 mmWx 132.6 mmHx 497.8 mmDNet Weight: 17.4 kg (38 lb) Shipping Weight: 22.7 kg (50 lb) Maximum HV High Range Program: 50.5 V Notes
Corners from Agilent 6621A-6627A Operating Manual; accuracy/ripple from 6620A Series datasheet.

6624A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	4
Outputs 1 and 2 Type	40 W Low Voltage
Outputs 1 and 2 Low Range	0 to 7 V, 0 to 5 A
Outputs 1 and 2 High Range	0 to 20 V, 0 to 2 A
Outputs 3 and 4 Type	40 W High Voltage
Outputs 3 and 4 Low Range	0 to 20 V, 0 to 2 A
Outputs 3 and 4 High Range	0 to 50 V, 0 to 0.8 A
Voltage Programming Accuracy Low 40 W	0.06% + 19 mV
Voltage Programming Accuracy High 40 W	0.06% + 50 mV
Current Programming Accuracy Low 40 W	0.16% + 50 mA
Current Programming Accuracy High 40 W	0.16% + 20 mA
CV Ripple RMS	500 μ V
CV Ripple Peak to Peak	3 mV
CC Ripple RMS	1 mA
Load Regulation Voltage	2 mV
DC Floating Voltage	$\pm$ 240 Vdc
Remote Sense	up to 1 V per load lead
Command Processing Time	7 ms typical
Input Power	550 W max, 720 VA max
Size	425.5 mmWx 132.6 mmHx 497.8 mmDNet Weight: 17.4 kg (38 lb)
Shipping Weight	22.7 kg (50 lb)
Maximum HV High Range Program	50.5 V

6624A Specifications

PARAMETER	VALUE
HP Agilent 6624A Quad Output System DC Power Supply	Overview
Applications	Four-rail DUT bias, dense ATE power in one 3U box, and GPIB sequencing of multiple isolated supplies.
Two LV and two HV 40 W boards	Low ripple linear regulation
Technical Specifications	Number of Outputs: 4
Notes	Corners from Agilent 6621A-6627A Operating Manual; accuracy/ripple from 6620A Series datasheet.

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	
Technical Specifications	
PARAMETER	VALUE
Number of Outputs	4
Outputs 1 and 2 Type	40 W Low Voltage
Outputs 1 and 2 Low Range	0 to 7 V, 0 to 5 A
Outputs 1 and 2 High Range	0 to 20 V, 0 to 2 A
Outputs 3 and 4 Type	40 W High Voltage
Outputs 3 and 4 Low Range	0 to 20 V, 0 to 2 A
Outputs 3 and 4 High Range	0 to 50 V, 0 to 0.8 A
Voltage Programming Accuracy Low 40 W	0.06% + 19 mV
Voltage Programming Accuracy High 40 W	0.06% + 50 mV
Current Programming Accuracy Low 40 W	0.16% + 50 mA
Current Programming Accuracy High 40 W	0.16% + 20 mA
CV Ripple RMS	500 uV
CV Ripple Peak to Peak	3 mV
CC Ripple RMS	1 mA
Load Regulation Voltage	2 mV
DC Floating Voltage	±240 Vdc
Remote Sense	up to 1 V per load lead
Command Processing Time	7 ms typical
Input Power	550 W max, 720 VA max
Size	425.5 mm W x 132.6 mm H x 497.8 mm D
Net Weight	17.4 kg (38 lb)
Shipping Weight	22.7 kg (50 lb)
Maximum HV High Range Program	50.5 V
Specifications	

PARAMETER	VALUE
Number of Outputs	4
Outputs 1 and 2 Type	40 W Low Voltage
Outputs 1 and 2 Low Range	0 to 7 V, 0 to 5 A
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Outputs 3 and 4 Type	40 W High Voltage
Outputs 3 and 4 Low Range	0 to 20 V, 0 to 2 A
Outputs 3 and 4 High Range	0 to 50 V, 0 to 0.8 A
Voltage Programming Accuracy Low 40 W	0.06% + 19 mV
Voltage Programming Accuracy High 40 W	0.06% + 50 mV
Current Programming Accuracy Low 40 W	0.16% + 50 mA
Current Programming Accuracy High 40 W	0.16% + 20 mA
CV Ripple RMS	500 μ V
CV Ripple Peak to Peak	3 mV
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Load Regulation Voltage	2 mV
DC Floating Voltage	$\pm$ 240 Vdc
Remote Sense	up to 1 V per load lead
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Size	425.5 mmWx 132.6 mmHx 497.8 mmDNet Weight: 17.4 kg (38 lb)
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Maximum HV High Range Program	50.5 V

Notes

Corners from Agilent 6621A-6627A Operating Manual; accuracy/ripple from 6620A Series datasheet.

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

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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.