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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6625A Precision System Power Supply, 25W or 50W, 2 outputs

HP Agilent 6625A Precision Dual Output System DC Power Supply The HP/Agilent 6625A is a precision dual output GPIB linear system DC power supply with one 25 W output and one 50 W output. OEM 6625A/6626A/6628A/6629A datasheet rates dual range precision outputs, 500 uVrms ripple, less than 75 us transient recovery, and SCPI control in a 3U package. ATE precision dual rail biasing, semiconductor and mixed signal DUT power with microamp readback, and GPIB automated sourcing needing isolated dual outputs. The HP/Agilent 6625A is a precision dual output GPIB linear system DC power supply with one 25 W output and one 50 W output. OEM 6625A/6626A/6628A/6629A datasheet rates dual range precision outputs, 500 uVrms ripple, less than 75 us transient recovery, and SCPI control in a 3U package. ATE precision dual rail biasing, semiconductor and mixed signal DUT power with microamp readback, and GPIB automated sourcing needing isolated dual outputs. Dual range low and high current programming per output Active down programmer for fast down programming



MODEL

HP / Agilent 6625A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6625A

LISTING

<https://aumictechlabs.com/products/6625a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6625A is a dual-output precision DC power supply delivering 25W or 50W per isolated output. It combines programmable voltage and current control with low-noise

performance and comprehensive protection, making it ideal for R&D, automated test systems, and precision measurement applications. Front-panel keypad or GPIB remote control enables straightforward integration into complex test environments. The unit supports SCPI commands and VXIplug&play drivers for seamless instrument coordination.

Technical Specifications

Output Capability: Two independently isolated outputs, each configurable as either 25W or 50W. The 25W configuration offers a low range of 0–7 V, 0–15 mA and a high range of 0–50 V, 0–500 mA. The 50W configuration provides low-range operation at 0–16 V, 0–200 mA and high-range operation at 0–50 V, 0–1 A or 0–16 V, 0–2 A.

Programming Accuracy (25°C ±5°C): Voltage accuracy reaches ±(0.016% of setting + 1.5 mV) in the 25W low range and ±(0.016% of setting + 10 mV) in high range. Current accuracy is ±(0.04% of setting + 15 µA) for 25W low range and ±(0.04% of setting + 100 µA) for high range. The 50W configuration delivers ±(0.016% of setting + 53 mV) voltage accuracy in low range and ±(0.016% of setting + 10 mV) in high range, with current accuracy of ±(0.04% of setting + 185 µA) and ±(0.04% of setting + 500 µA) respectively.

Output Quality: Ripple and noise across 20 Hz to 20 MHz measures 500 µV RMS and 3 mV peak-to-peak in constant voltage mode, with 1 mA RMS in constant current mode. Readback accuracy tracks programming accuracy within tight tolerances across all ranges.

Key Features

- Active down-programmer sinks full rated current with fast response time
- Programmable overvoltage and overcurrent protection
- Fast CV/CC crossover for stable operation across load transitions
- Remote sensing compensates for up to 10 V drop per load lead
- Dual isolated outputs for independent load control

Typical Applications

Research and development, component and subsystem characterization, automated test system integration, and precision power delivery to analog and digital circuits.

Compatibility & Integration

GPIB remote control interface with SCPI command support and VXIplug&play driver availability enable direct integration into test automation frameworks.

6625A Characteristics / Specifications

PARAMETER	VALUE
Number Of Outputs	2
Output 1 Power Class	25 W
Output 2 Power Class	50 W
Output 1 Low Range	0 to 7 V, 0 to 15 mA
Output 1 High Range	0 to 50 V, 0 to 500 mA
Output 2 Low Range	0 to 16 V, 0 to 200 mA
Output 2 High Range	0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A
Programming Accuracy Voltage Output 1 Low	1.5 mV plus 0.016 percent
Programming Accuracy Voltage Output 1 High	10 mV plus 0.016 percent
Programming Accuracy Current Output 1 Low	15 uA plus 0.04 percent
Programming Accuracy Current Output 1 High	100 uA plus 0.04 percent
Ripple Voltage RMS	500 uV
Ripple Voltage Peak To Peak	3 mV
Ripple Current RMS	0.1 mA
Transient Response	less than 75 us to within 75 mV
DC Floating Voltage	plus or minus 240 Vdc from chassis ground
Command Processing Time Typical	7 ms with display disabled
Input Power Max	550 W, 720 VA
Size	425.5 mmWx 132.6 mmHx 497.8 mmDNet Weight: 15.5 kg
GPIB	yes

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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Number Of Outputs	2
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Output 2 High Range	0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A
Programming Accuracy Voltage Output 1 Low	1.5 mV plus 0.016 percent
Programming Accuracy Voltage Output 1 High	10 mV plus 0.016 percent
Programming Accuracy Current Output 1 Low	15 uA plus 0.04 percent
Programming Accuracy Current Output 1 High	100 uA plus 0.04 percent
Ripple Voltage RMS	500 uV
Ripple Voltage Peak To Peak	3 mV
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Transient Response	less than 75 us to within 75 mV
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Notes	
Specs from Agilent/Keysight 6625A/6626A/6628A/6629A precision multiple output datasheet column for 6625A at 25 C plus or minus 5 C where stated.	

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.