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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6628A DC Power Supply, 16V/200mA, 50V/1A

HP Agilent 6628A Precision Dual Output System DC Power Supply The HP/Agilent 6628A is a precision dual output GPIB linear system DC power supply with two 50 W precision outputs. OEM 6625A/6626A/6628A/6629A datasheet rates dual range L-shaped outputs, 500 uVrms ripple, less than 75 us transient recovery, and SCPI control in a 3U package. ATE dual rail precision biasing, semiconductor characterization power, and GPIB automated sourcing needing two identical 50 W precision channels. Two fully isolated 50 W precision outputs The HP/Agilent 6628A is a precision dual output GPIB linear system DC power supply with two 50 W precision outputs. OEM 6625A/6626A/6628A/6629A datasheet rates dual range L-shaped outputs, 500 uVrms ripple, less than 75 us transient recovery, and SCPI control in a 3U package. ATE dual rail precision biasing, semiconductor characterization power, and GPIB automated sourcing needing two identical 50 W precision channels. Two fully isolated 50 W precision outputs Dual range L-shaped V/I characteristic per output



MODEL

HP / Agilent 6628A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6628A

LISTING

<https://aumictechlabs.com/products/6628a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 6628A is a 50 W dual-output precision DC power supply engineered for R&D and automated test environments demanding fast programming, high accuracy, and reliable DUT

protection. Each isolated output delivers independent voltage and current control with configurable series or parallel operation for application flexibility. Technical Specifications Output Ratings Output 1 (Low Range): 0–16 V, 0–200 mA Output 2 (High Range): 0–50 V, 0–1 A (or alternatively 0–16 V, 0–2 A) Both outputs rated at 50 W per output Programming & Readback Accuracy (at 25°C ±5°C) Voltage (Low Range): ±(0.016% of setting + 3 mV) programming; ±(0.016% of setting + 3.5 mV) readback Voltage (High Range): ±(0.016% of setting + 10 mV) programming and readback Current (Low Range): ±(0.04% of setting + 185 µA) programming; ±(0.04% of setting + 250 µA) readback Current (High Range): ±(0.04% of setting + 500 µA) programming; ±(0.04% of setting + 550 µA) readback Output Ripple & Noise (20 Hz to 20 MHz) Constant Voltage: 500 µV RMS, 3 mV peak-to-peak Constant Current: 0.1 mA RMS Input Power Maximum: 550 W, 720 VA Available line options: 87–106 VAC, 104–127 VAC, 191–233 VAC, or 209–250 VAC (47–66 Hz) Environmental Operating Temperature: 0°C to 55°C Humidity: Up to 95% relative humidity Altitude: Up to 2000 m Key Features Dual isolated outputs; series or parallel connection capability Fast up/down programming with active down-programmer sinking full rated current Fast CV/CC crossover for transient protection Precision low-current measurement capability Remote sensing support 3U high form factor Compatibility & Integration GPIB interface (SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0, C0, E1) SCPI command compatible VXIPlug&Play drivers available Front-panel keypad or remote control via GPIB UL 1244 listed; IEC 61010-1 compliant

6628A Characteristics / Specifications

PARAMETER	VALUE
Number Of Outputs	2
Output Power Per Channel	50 W
Low Range Per Output	0 to 16 V, 0 to 200 mA
High Range Per Output	0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A
Programming Accuracy Voltage Low	3 mV plus 0.016 percent
Programming Accuracy Voltage High	10 mV plus 0.016 percent
Programming Accuracy Current Low	185 uA plus 0.04 percent
Programming Accuracy Current High	500 uA plus 0.04 percent
Readback Accuracy Voltage Low	0.016 percent plus 3.5 mV
Readback Accuracy Voltage High	0.016 percent plus 10 mV
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

6628A Specifications

PARAMETER	VALUE
Key Features	Two fully isolated 50 W precision outputs
Dual range L shaped V/I characteristic per output	Active downprogrammer for fast downprogramming
Technical Specifications	Number Of Outputs: 2
Notes	Specs from Agilent/Keysight 6625A/6626A/6628A/6629A precision multiple output datasheet column for 6628A.

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