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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6629A DC Power Supply

Agilent 6629A Precision Multiple Output DC Power Supply four 50 W The Agilent 6629A isaprecision multiple-output GPIB DC power supply. OEM tables list four 50 W precision dual-range outputs. High-channel-count precision ATE power with microamp-class current programming. Instrument Type: Precision multiple-output system DC supply The Agilent 6629A isaprecision multiple-output GPIB DC power supply. OEM tables list four 50 W precision dual-range outputs. High-channel-count precision ATE power with microamp-class current programming. Instrument Type: Precision multiple-output system DC supply Series Family: Agilent 6625A 6626A 6628A 6629A



MODEL

**Agilent / Keysight
6629A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6629A

LISTING

[https://aumictechlabs.c
om/products/6629a-2/](https://aumictechlabs.com/products/6629a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6629A is a precision quad-output DC power supply delivering 50 W across four fully isolated channels in a compact 3U package. Designed for research, development, and automated test environments, it combines dual-range voltage/current capability with low-noise performance and fast settling time. Each output supports independent voltage and current programming with high resolution and accuracy, making it suitable for component characterization, circuit validation, and integrated test systems requiring multiple isolated power rails. The unit features overvoltage and overcurrent protection with fast CV/CC crossover, remote sensing up to 10 V per lead, and floating output capability to ± 240 Vdc from chassis ground. GPIB

control via industry-standard SCPI commands and VXI Plug & Play drivers enables both manual front-panel operation and fully automated testing.

Technical Specifications

Output Configuration

4 fully isolated outputs, 50 W total
Low Range: 0–16 V, 0–200 mA per output
High Range: 0–50 V, 0–1 A OR 0–16 V, 0–2 A per output
Voltage Programming Accuracy (25°C ±5°C)
Low Range: 0.016% + 3 mV
High Range: 10 mV
Voltage Resolution
Low Range: 460 µV
High Range: 1 mV (50 V range), 3.2 mV (16 V range)
Current Programming Accuracy
Low Range: 0.04% + 185 µA
High Range: 500 µA
Current Resolution
Low Range: 1 µA
High Range: 13 µA (1 A range), 33 µA (2 A range)
Output Settling Time 6 ms to 0.1% of full-scale output after Vset command
Ripple & Noise (20 Hz–20 MHz)
Voltage RMS: 500 µV
Voltage Peak-to-Peak: 3 mV
Current RMS: 0.1 mA

Key Features

Dual-range outputs for optimized voltage/current delivery
Four independent, fully isolated supplies in single chassis
Overvoltage and overcurrent protection with fast CV/CC crossover
Remote sensing: up to 10 V drop compensation per load lead
Floating output: all channels to ±240 Vdc from ground
Low noise: 500 µV RMS voltage, 0.1 mA RMS current
Input Power: 550 W maximum, 720 VA maximum

Compatibility & Integration

GPIB (IEEE 488) with SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0, C0, E1 configuration. Optional CIIL interface (Opt 700) and fault/remote inhibit (Opt 750/S50).
SCPI command set and VXI Plug & Play drivers for seamless integration into automated test platforms.
Physical: 425.5 mm W × 132.6 mm H × 497.8 mm D, 17.4 kg net. UL 1244 listed; conforms to IEC 61010-1.

6629A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Precision multiple-output system DC supply
Series Family	Agilent 6625A 6626A 6628A 6629A
Number of Outputs	4
Output Mix	four 50 W precision 50 W Dual Range: 0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A
Programming Accuracy Voltage High	0.016 percent plus 10 mV
Programming Accuracy Current High	0.04 percent plus 500 uA
Ripple Noise CV RMS	500 uV
Ripple Noise CV Peak Peak	3 mV
Ripple Noise CC RMS	0.1 mA
Load Regulation Voltage	0.5 mV
Load Regulation Current	0.01 mA
Line Regulation Voltage	0.5 mV
Transient Response	less than 75 us to within 75 mV
Average Programming Resolution Voltage High	3.2 mV
Average Programming Resolution Current High	131 uA
Output Programming Response	6 ms
DC Floating Voltage	plus or minus 240 Vdc
Remote Sensing Drop	up to 10 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 mmDWeight Net: 17.4 kg (38 lb)

6629A Specifications

PARAMETER	VALUE
Overview	The Agilent 6629A is a precision multiple-output GPIB DC power supply. OEM tables list four 50 W precision dual-range outputs.
Applications	High-channel-count precision ATE power with microamp-class current programming.
Key Features	Four 50 W precision isolated outputs
Technical Specifications	Instrument Type: Precision multiple-output system DC supply
Notes	From Agilent 6620A Series Precision Multiple-Output data sheet output combination row for 6629A.

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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Series Family	Agilent 6625A 6626A 6628A 6629A
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50 W Dual Range: 0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A	
Specifications	
PARAMETER	VALUE
Programming Accuracy Voltage High	0.016 percent plus 10 mV
Programming Accuracy Current High	0.04 percent plus 500 uA
Ripple Noise CV RMS	500 uV
Ripple Noise CV Peak Peak	3 mV
Ripple Noise CC RMS	0.1 mA
Load Regulation Voltage	0.5 mV
Load Regulation Current	0.01 mA
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Notes

From Agilent 6620A Series Precision Multiple-Output data sheet output combination row for 6629A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.