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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6255A DC Power Supply

Agilent 6255A Dual Output DC Power Supply 0 to 40 V 0 to 1.5 A per side The HP/Agilent 6255A is a dual-output regulated DC power supply. OEM catalog ratings are 0 to 40 V and 0 to 1.5 A per side (2 outputs). Op-amp and bipolar circuit bias, tracking positive/negative rails, and dual-channel lab power. Two isolated regulated outputs in one chassis The HP/Agilent 6255A is a dual-output regulated DC power supply. OEM catalog ratings are 0 to 40 V and 0 to 1.5 A per side (2 outputs). Op-amp and bipolar circuit bias, tracking positive/negative rails, and dual-channel lab power. Two isolated regulated outputs in one chassis Independent or tracking modes on dual lab models



MODEL

**Agilent / Keysight
6255A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6255A

LISTING

<https://aumictechlabs.com/products/6255a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6255A is a dual-output DC power supply engineered for laboratory and design environments requiring stable, independently adjustable power delivery. Each output operates from 0 to 40 V at 0 to 1.5 A, with a combined 60 W rating per supply. The unit supports auto-series, auto-parallel, and auto-tracking configurations, enabling flexible output combinations for higher voltage or current requirements without additional hardware. Output stability is assured through exceptional ripple and noise performance: less than 200 μ V rms in constant voltage mode and less than 500 μ A rms in constant current mode (20 Hz to 20 MHz bandwidth). Load regulation holds to better than 0.01% + 2 mV in CV mode and 0.01% + 250 μ A in CC mode. Line regulation

remains within $0.01\% + 2 \text{ mV}$ (CV) and $0.01\% + 250 \mu\text{A}$ (CC) across the full input voltage range. Over an 8-hour period following 30-minute warm-up, drift stays below $0.10\% + 2.5 \text{ mV}$ in CV mode and $0.10\% + 4 \text{ mA}$ in CC mode. Temperature coefficient is $0.02\% + 500 \mu\text{V}$ per $^{\circ}\text{C}$ (CV) and $0.02\% + 0.8 \text{ mA}$ per $^{\circ}\text{C}$ (CC). Internal impedance in constant voltage operation ranges from less than 0.001 ohm at DC to 100 Hz , increasing to 0.01 ohm at 100 Hz to 1 kHz , and 0.2 ohm at 1 kHz to 100 kHz . The unit accepts $105\text{--}125 \text{ VAC}$ or $210\text{--}250 \text{ VAC}$ input (selectable) at $50\text{--}400 \text{ Hz}$ single-phase operation.

Technical Specifications

Outputs: 2 independent channels

Output Range: $0\text{--}40 \text{ V}$, $0\text{--}1.5 \text{ A}$ per output; 60 W combined

Output Modes: Auto-series, auto-parallel, auto-tracking

Ripple & Noise: $<200 \mu\text{V rms CV}$ / $<500 \mu\text{A rms CC}$ ($20 \text{ Hz}\text{--}20 \text{ MHz}$)

Load Regulation: $<0.01\% + 2 \text{ mV CV}$ / $<0.01\% + 250 \mu\text{A CC}$

Line Regulation: $<0.01\% + 2 \text{ mV CV}$ / $<0.01\% + 250 \mu\text{A CC}$

8-Hour Stability: $<0.10\% + 2.5 \text{ mV CV}$ / $<0.10\% + 4 \text{ mA CC}$

Temperature Coefficient: $<0.02\% + 500 \mu\text{V}/^{\circ}\text{C CV}$ / $<0.02\% + 0.8 \text{ mA}/^{\circ}\text{C CC}$

Input Power: $105\text{--}125 \text{ VAC}$ / $210\text{--}250 \text{ VAC}$, $50\text{--}400 \text{ Hz}$, single-phase

Operating Temperature: 0 to 50°C

Dimensions: $3.5'' \text{ H} \times 19'' \text{ W} \times 14.5'' \text{ D}$

Weight: 12.7 kg

Key Features

- Remote programming via external voltage or resistance
- Remote sensing capability
- Front panel voltage and current adjustment
- Dual-output independent or combined operation

Typical Applications

- Laboratory circuit characterization and design validation
- Electronic component and module testing
- Prototype power delivery in multi-rail configurations

Compatibility & Integration

- Remote programming and sensing support integration into automated test systems.
- Front panel controls provide direct operator interface when remote control is inactive.

6255A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Dual output regulated DC power supply
Series Family	HP general purpose 25 to 200 W duals
Number of Outputs	2
Output Voltage Rating Per Side	0 to 40 V
Output Current Rating Per Side	0 to 1.5 A
Operating Modes	CV/CC each side
Load Effect Transient Recovery	50 us; 15 mV level
Meter Accuracy	3 percent of full scale
AC Input Standard	115 Vac plus or minus 10 percent
AC Input Option 0	230 Vac plus or minus 10 percent
Isolation Output to Chassis	up to 300 V class
Isolation Output to Output	up to 300 V class on duals
Auto Series	supported
Auto Parallel	supported
Auto Tracking	supported on 6253A/6255A class
Remote Sensing	yes
Remote Programming	yes
Front Rear Terminals	yes
Floating Output	positive or negative source
Size Class	model dependent half or full rack per catalog
Power Per Side Class	50 W or 60 W class by model

6255A Specifications

PARAMETER	VALUE
Overview	The HP/Agilent 6255A is a dual-output regulated DC power supply. OEM catalog ratings are 0 to 40 V and 0 to 1.5 A per side (2 outputs).
Independent or tracking modes on dual lab models	CV/CC operation on each side
Auto series and auto parallel for higher V or I	Crowbar protection on dual 60 W class models
Technical Specifications	Instrument Type: Dual output regulated DC power supply

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

Specifications

PARAMETER	VALUE
Instrument Type	Dual output regulated DC power supply
Series Family	HP general purpose 25 to 200 W duals
Number of Outputs	2
Output Voltage Rating Per Side	0 to 40 V
Output Current Rating Per Side	0 to 1.5 A
Operating Modes	CV/CC each side
Load Effect Transient Recovery	50 us; 15 mV level
Meter Accuracy	3 percent of full scale
AC Input Standard	115 Vac plus or minus 10 percent
AC Input Option 028	230 Vac plus or minus 10 percent
Isolation Output to Chassis	up to 300 V class
Isolation Output to Output	up to 300 V class on duals
Auto Series	supported
Auto Parallel	supported
Auto Tracking	supported on 6253A/6255A class
Remote Sensing	yes
Remote Programming	yes
Front Rear Terminals	yes
Floating Output	positive or negative source

Option 011 Crowbar: internal overvoltage crowbar available

Size Class: model dependent half or full rack per catalog

Power Per Side Class: 50 W or 60 W class by model

Notes

HP catalog dual identical 60 W sections; auto-tracking for plus or minus 40 V. From HP Power Supplies General Purpose Models 6227B-6299A catalog section.

Ordering Information

OPTION	DESCRIPTION
Option 011	Crowbar: internal overvoltage crowbar available

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.