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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6205B DC Power Supply

HP 6205B Dual-Output Bench DC Power Supply The HP 6205B is a compact dual-output linear bench DC power supply. Each independent section can be set for 0 to 40 V at 0.3 A or 0 to 20 V at 0.6 A, with front-panel meters selectable for voltage or current and floating outputs (U.S. Army designation PP-7548/U). General bench prototyping needing two independent moderate-power rails, dual-rail analog circuits, and laboratory work where remote sensing or resistance/voltage programming from the rear terminals is useful. The HP 6205B is a compact dual-output linear bench DC power supply. Each independent section can be set for 0 to 40 V at 0.3 A or 0 to 20 V at 0.6 A, with front-panel meters selectable for voltage or current and floating outputs (U.S. Army designation PP-7548/U). General bench prototyping needing two independent moderate-power rails, dual-rail analog circuits, and laboratory work where remote sensing or resistance/voltage programming from the rear terminals is useful. Front-panel coarse/fine voltage controls and range switches



MODEL

**Agilent / Keysight
6205B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6205B

LISTING

<https://aumictechlabs.com/products/6205b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6205B is a dual-output benchtop DC power supply engineered for laboratory and production testing environments. Each of its two independent, floating outputs delivers regulated power in selectable ranges: 0–20 VDC at 0.6 A or 0–40 VDC at 0.3 A, for a combined 20 W total output. The instrument combines precise voltage regulation with current-limiting

protection, backed by low noise performance and exceptional load/line stability across operating conditions.

Technical Specifications

Output Performance

2 independent floating outputs
Output ranges: 0–20 VDC @ 0.6 A or 0–40 VDC @ 0.3 A per channel
Voltage regulation (load): $<0.01\% + 4 \text{ mV}$
Voltage regulation (line): $<0.01\% + 4 \text{ mV}$ across rated input
Ripple and noise: $<200 \mu\text{V}_{\text{rms}}$, 1 mV peak-to-peak
Stability (8 hours): $<0.10\% + 5 \text{ mV}$ after 30-minute warm-up
Temperature coefficient: $<0.02\% + 1 \text{ mV}/^\circ\text{C}$
Internal impedance: $<0.02 \Omega$ (DC–1 kHz), $<0.5 \Omega$ (1–100 kHz), $<3.0 \Omega$ (100 kHz–1 MHz)

Input Specifications

115 VAC ($\pm 10\%$) or 230 VAC ($\pm 10\%$)
48–440 Hz input frequency
31 W input at full load (115 V, 60 Hz)

Environmental

Operating temperature: 0–50°C
Storage temperature: -40–+75°C

Key Features

Constant voltage/current-limiting operation
Dual analog meters for independent voltage/current monitoring per output
Coarse and fine adjustment potentiometers with user-selectable metering
Auto-series and auto-parallel connection modes for voltage/current expansion
Auto-tracking capability for synchronized output control
Remote sensing support for improved load regulation
Floating outputs allow positive or negative terminal grounding

Operational Options

Option 007: 10-turn voltage potentiometer
Option 011: Internal overvoltage protection crowbar
Option 013: 3-digit decadal voltage control
Option 028: 230 VAC input configuration
Option 040: Multiprogrammer interface

Typical Applications

General-purpose bench testing, device characterization, circuit development, and production validation requiring dual independent supplies with precision regulation and current protection.

6205B Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	2
Output Range ModeAeach Section	0 to 40 V at 0.3 A
Output Range ModeBeach Section	0 to 20 V at 0.6 A
Load Regulation	Less than 0.01% + 4 mV for full load to no load
AC Input	115 Vac $\pm$ 10%, single phase, 48 to 440 Hz
Internal Impedance DC to 1 kHz	Less than 0.02 ohm
Internal Impedance 1 kHz to 100 kHz	Less than 0.5 ohm
Internal Impedance 100 kHz to 1 MHz	Less than 3.0 ohm
Transient Recovery Time	Less than 50 us to within 10 mV after full load current change
Remote Resistance Programming	200 ohms per Volt
Remote Voltage Programming	1 Volt per Volt
Meter Voltage Ranges	0 to 50 V or 0 to 5 V
Meter Current Ranges	0 to 0.75 A or 0 to 0.075 A
Cooling	Convection
Overload Protection	Fixed current limiting including direct short
Output Terminals Front	Six five-way binding posts (three per section)
Output Terminals Rear	Two terminal strips (one per section)
Isolation	Either polarity may be grounded through separate ground terminals
Error Sensing	Front or rear depending on load attachment; rear remote sensing provisions included

6205B Specifications

PARAMETER	VALUE
Floating outputs with chassis ground straps	Remote sensing and remote resistance/voltage programming on rear strips
Convection cooling with no moving parts	Optional internal overvoltage crowbar (Option 011)
Technical Specifications	Number of Outputs: 2

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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Isolation	Either polarity may be grounded through separate ground terminals
Error Sensing	Front or rear depending on load attachment; rear remote sensing provisions included
Option 011: Internal overvoltage crowbar protection	
Option 007: 10-turn voltage potentiometer	
Option 028: 230 Vac ±10% operation	
Notes	
Specs from U.S. Army TM 11-6625-2965-14&P covering Power Supply PP-7548/U (Hewlett-Packard Model 6205B).	
Additional ripple figures in other OEM editions should be confirmed on the unit certificate for used instruments.	

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.