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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6002A DC POWER SUPPLY

HP Agilent 6002A Extended Range DC Power Supply The HP 6002A is a 200 W extended-range DC power supply adjustable from 0 to 50 V and 0 to 10 A. OEM literature states full 200 W availability from 20 V 10 A to 50 V 4 A with constant-voltage/constant-current operation and optional HP-IB programming (Option 001). Bench and light system DC bias spanning low-voltage high-current and higher-voltage lower-current needs without swapping supplies, and HP-IB automated CV or CC programming with Option 001. Constant voltage and constant current with status indicators The HP 6002A is a 200 W extended-range DC power supply adjustable from 0 to 50 V and 0 to 10 A. OEM literature states full 200 W availability from 20 V 10 A to 50 V 4 A with constant-voltage/constant-current operation and optional HP-IB programming (Option 001). Bench and light system DC bias spanning low-voltage high-current and higher-voltage lower-current needs without swapping supplies, and HP-IB automated CV or CC programming with Option 001. Constant voltage and constant current with status indicators



MODEL

HP / Agilent 6002A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6002A

LISTING

<https://aumictechlabs.com/products/6002a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6002A is a 200 W benchtop DC power supply delivering stable, adjustable voltage and current for electronic testing, development, and system integration. Its autoranging architecture eliminates the need for multiple conventional supplies by providing full 200 W output

across voltage and current combinations from 20 V/10 A to 50 V/4 A. The unit operates in constant-voltage/constant-current (CV/CC) mode with linear regulation, integrated overvoltage protection via crowbar circuit, and both analog front-panel control and optional remote programming for automated test environments. Technical Specifications Output Power: 200 W maximum Voltage Range: 0 to 50 VDC, adjustable Current Range: 0 to 10 ADC, adjustable Load Regulation (CV): $<0.01\%$ of output + 1 mV Load Regulation (CC): $<0.01\%$ of output + 1 mA Source Regulation (CV): $<0.01\%$ of output + 1 mV Source Regulation (CC): $<0.01\%$ of output + 1 mA Temperature Coefficient (CV): $<0.02\% + 200 \mu\text{V}/^\circ\text{C}$ after 30-minute warm-up Load Transient Recovery: $<100 \mu\text{s}$ to within 15 mV (CV mode, 50%–100% current step) Output Impedance: Typically $0.5 \text{ m}\Omega$ series with $1 \mu\text{H}$ Ripple and Noise: $<5 \text{ mA rms}$ (CV and CC modes) Key Features Autoranging capability across broad voltage/current envelope CV/CC operation with linear regulation Adjustable overvoltage protection (2.5 V to 60 V trip range) Programmable voltage and current ranges for enhanced resolution at low outputs Output status indicators for CV/CC operation mode Front-panel analog controls with optional remote programming Typical Applications Electronic testing, product development, system integration, and automated test systems requiring stable DC sourcing across multiple voltage and current profiles. Compatibility & Integration Optional HP-IB interface enables remote programming for test automation and system integration.

Features & description

From manufacturer datasheet

Built-in overvoltage protection crowbar

Remote analog programming and sensing Optional HP-IB listener interface Option 001 Technical Specifications Output Voltage Range: 0 to 50 V Output Current Range: 0 to 10 A Output Power: 200 W Full Power Corner Low Voltage: 20 V at 10 A Full Power Corner High Voltage: 50 V at 4 A Regulation Topology: linear regulated extended range Ripple: 1 mV RMS Input Voltage Selections: 100 / 120 / 220 / 240 VAC Dimensions: 212 × 180 × 422 mm Weight: 14.5 kg (32 lb) Operation Modes: constant voltage and constant current OVP: built-in overvoltage protection crowbar Remote Sensing: yes Remote Analog Programming: yes HP IB Option: Option 001 listener HP IB Mode Selection: local, HP-IB CV, or HP-IB CC via rear switches Meters: separate voltage and current meters Status Indicators: CV / CC operation indicators Overrange Indication: front-panel indicator when beyond regulated envelope Form Factor: half-rack laboratory supply Intended Power Class: 200 W extended range Autoranging Behavior: extended range continuous V-I combinations within 200 W Notes Voltage/current/power envelope from HP 6002A programming and HP Journal descriptions; ripple, size, and weight from published specification summaries. Prefer the operating/service manual Table 1-1 for authoritative regulation percentages by mode.

6002A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 50 V
Output Current Range	0 to 10 A
Output Power	200 W
Full Power Corner Low Voltage	20 V at 10 A
Full Power Corner High Voltage	50 V at 4 A
Regulation Topology	linear regulated extended range
Ripple	1 mV RMS
Input Voltage Selections	100 / 120 / 220 / 240 VAC
Dimensions	212 × 180 × 422 mm
Weight	14.5 kg (32 lb)
Operation Modes	constant voltage and constant current
OVP	built-in overvoltage protection crowbar
Remote Sensing	yes
Remote Analog Programming	yes
HP IB Option	Option 001 listener
HP IB Mode Selection	local, HP-IB CV, or HP-IB CC via rear switches
Meters	separate voltage and current meters
Status Indicators	CV / CC operation indicators
Overrange Indication	front-panel indicator when beyond regulated envelope
Form Factor	half-rack laboratory supply
Intended Power Class	200 W extended range
Autoranging Behavior	extended range continuous V-I combinations within 200 W

6002A Specifications

PARAMETER	VALUE
HP Agilent 6002A Extended Range DC Power Supply	Overview
Key Features	Extended-range 200 W output envelope
Remote analog programming and sensing	Optional HP-IB listener interface Option 001
Technical Specifications	Output Voltage Range: 0 to 50 V

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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PARAMETER	VALUE
Output Voltage Range	0 to 50 V
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Notes	
Voltage/current/power envelope from HP 6002A programming and HP Journal descriptions; ripple, size, and weight from published specification summaries. Prefer the operating/service manual Table 1-1 for authoritative regulation percentages by mode.	

Ordering Information

OPTION	DESCRIPTION
Option 001	Technical Specifications

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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NIST-traceable calibration · SAM registered ·
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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.