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Data Sheet

August 14, 2026

HP / AGILENT

HP " AGILENT 6632A 20V/ 5A, 100W SYSTEM DC POWER SUPPLY

HP Agilent 6632A 100 W System DC Power Supply 20 V 5 A The HP/Agilent 6632A is a 100 W single-output series-pass system DC power supply rated 0 to 20 V and 0 to ± 5 A with current sinking, built-in readback DVM/ammeter, and HP-IB programming. Published HP 6632A-6634A family datasheet values include voltage programming accuracy 0.05% + 10 mV and current programming accuracy 0.15% + 7 mA at 25 $\pm$ 5 C. Automated test power for electronic loads and DUT bias, fast down-programming with current sink, remote-sense precision loading, and one-box CV/CC source-measure in HP-IB systems. The HP/Agilent 6632A is a 100 W single-output series-pass system DC power supply rated 0 to 20 V and 0 to ± 5 A with current sinking, built-in readback DVM/ammeter, and HP-IB programming. Published HP 6632A-6634A family datasheet values include voltage programming accuracy 0.05% + 10 mV and current programming accuracy 0.15% + 7 mA at 25 $\pm$ 5 C. Automated test power for electronic loads and DUT bias, fast down-programming with current sink, remote-sense precision loading, and one-box CV/CC source-measure in HP-IB systems.



MODEL

HP / Agilent 6632A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6632A

LISTING

<https://aumictechlabs.com/products/6632a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP-Agilent 6632A is a 100 W single-output DC power supply engineered for automated test systems and precision benchtop applications. It delivers 0–20 V and 0–±5 A with series-pass regulation and independent voltage or current control in both constant-voltage (CV) and constant-current (CC) modes. The unit integrates a digital voltmeter and precision current shunt for real-time output measurement and readback. HP-IB (GPIB) remote control enables full programmability, status reporting, and user-defined fault condition monitoring.

Technical Specifications

Output Performance

Power output: 100 W

Voltage range: 0 to 20 V

Current range: 0 to ±5 A

Programming accuracy (at 25°C ±5°C): voltage 0.05% + 10 mV; current 0.15% + 7 mA or 0.05% + 2 mA

Load regulation: voltage 2 mV; current 1 mA

Line regulation: voltage 0.5 mV; current 0.5 mA

Output Quality

Ripple and noise (20 Hz to 20 MHz): normal mode voltage 0.3 mV RMS / 3 mV peak-to-peak; fast mode voltage 1 mV RMS / 10 mV peak-to-peak; current 2 mA RMS

Current sinking capability with fast down-programming

Key Features

Dual-mode operation: fast mode (disconnected output capacitors for speed) and normal mode (minimized PARD)

Programmable overvoltage protection (OVP) with SCR crowbar via front panel or HP-IB

Programmable overcurrent protection (OCP) via front panel or HP-IB

Integrated DVM and precision current shunt for accurate readback

Full remote control and monitoring: voltage, current, OVP, OCP, output enable/disable, status readback, fault detection, self-test, and calibration functions

Typical Applications

Automated test systems, precision benchtop characterization, component validation, and circuit development requiring stable, programmable DC power with real-time feedback and protection.

Compatibility & Integration

HP-IB (GPIB) programming interface for integration into automated test environments and system controllers.

Features & description

From manufacturer datasheet

Built-in voltage and current readback over HP-IB

Programmable OVP with SCR crowbar and OCP Remote sense compensation up to 2 V per load lead
Software calibration and power-on self-test Technical Specifications Output Voltage Range: 0 to 20 V
Output Current Range: 0 to ± 5 A Output Power: 100 W Voltage Programming Accuracy 25 $\pm$ 5 C: 0.05%
+ 10 mV Current Programming Accuracy 25 $\pm$ 5 C: 0.15% + 7 mA Voltage Readback Accuracy 25 $\pm$ 5 C:
0.07% + 15 mV Current Readback Accuracy 25 $\pm$ 5 C: 0.18% + 9 mA Voltage Programming Resolution
Class: 5 mV Current Programming Resolution Class: 1.25 mA CV Ripple Noise Peak Peak Normal Mode
Class: 3 mV CV Ripple Noise rms Normal Mode Class: 0.5 mV Remote Sense Compensation: up to 2 V
per lead Programming Interface: HP-IB Overvoltage Protection: programmable with SCR crowbar
Overcurrent Protection: programmable Line Regulation Voltage Class: 0.5 mV class family sheet Load
Regulation Voltage Normal Class: 0.5 mV class Operating Modes: CV and CC programmable Calibration
Method: software no potentiometers Self Test: built-in at power-on and via HP-IB Line Input Options:
100/120/220/240 Vac 48-63 Hz Form Factor: system single-output 100 W Notes Accuracy and ratings
from HP Models 6632A-6634A power supply datasheet family tables (6632A column). Confirm exact
ripple and transient figures on the datasheet revision matching the unit serial prefix.

6632A Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 20 V
Output Current Range	0 to ± 5 A
Output Power	100 W
Voltage Programming Resolution Class	5 mV
Current Programming Resolution Class	1.25 mA
CV Ripple Noise Peak Peak Normal Mode Class	3 mV
CV Ripple Noise rms Normal Mode Class	0.5 mV
Remote Sense Compensation	up to 2 V per lead
Programming Interface	HP-IB
Overvoltage Protection	programmable with SCR crowbar
Overcurrent Protection	programmable
Line Regulation Voltage Class	0.5 mV class family sheet
Load Regulation Voltage Normal Class	0.5 mV class
Operating Modes	CV and CC programmable
Calibration Method	software no potentiometers
Self Test	built-in at power-on and via HP-IB
Line Input Options	100/120/220/240 Vac 48-63 Hz
Form Factor	system single-output 100 W

6632A Specifications

PARAMETER	VALUE
HP Agilent 6632A 100 W System DC Power Supply 20 V 5 A	Overview
Programmable OVP with SCR crowbar and OCP	Remote sense compensation up to 2 V per load lead
Technical Specifications	Output Voltage Range: 0 to 20 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

Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 20 V
Output Current Range	0 to ±5 A
Output Power	100 W

Voltage Programming Accuracy 25±5 C: 0.05% + 10 mV
Current Programming Accuracy 25±5 C: 0.15% + 7 mA
Voltage Readback Accuracy 25±5 C: 0.07% + 15 mV
Current Readback Accuracy 25±5 C: 0.18% + 9 mA
Voltage Programming Resolution Class: 5 mV
Current Programming Resolution Class: 1.25 mA
CV Ripple Noise Peak Peak Normal Mode Class: 3 mV

Specifications

PARAMETER	VALUE
CV Ripple Noise rms Normal Mode Class	0.5 mV
Remote Sense Compensation	up to 2 V per lead
Programming Interface	HP-IB
Overvoltage Protection	programmable with SCR crowbar
Overcurrent Protection	programmable
Line Regulation Voltage Class	0.5 mV class family sheet
Load Regulation Voltage Normal Class	0.5 mV class
Operating Modes	CV and CC programmable
Calibration Method	software no potentiometers
Self Test	built-in at power-on and via HP-IB
Line Input Options	100/120/220/240 Vac 48-63 Hz
Form Factor	system single-output 100 W

Notes

Accuracy and ratings from HP Models 6632A-6634A power supply datasheet family tables (6632A column). Confirm exact ripple and transient figures on the datasheet revision matching the unit serial prefix.

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.