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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 6542A 200 Watt Power Supply

Protection: OVP overcurrent overtemperature class GPIB Sibling: 6642A 20 V 10 A 200 W with GPIB Higher Power Sibling: 6652A 20 V 25 A 500 W with GPIB Ratings from Agilent 6542A 200 W family tables. Do not assign 6642A GPIB interface to a 6542A faceplate. Confirm current derating versus ambient on the nameplate/manual for the serial prefix. GPIB Sibling: 6642A 20 V 10 A 200 W with GPIB Higher Power Sibling: 6652A 20 V 25 A 500 W with GPIB Ratings from Agilent 6542A 200 W family tables. Do not assign 6642A GPIB interface to a 6542A faceplate. Confirm current derating versus ambient on the nameplate/manual for the serial prefix.



MODEL

**Keysight / Agilent /
HP 6542A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6542A

LISTING

[https://aumictechlabs.c
om/products/6542a-2/](https://aumictechlabs.com/products/6542a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight/Agilent/HP 6542A is a 200 W single-output programmable DC power supply engineered for stable, low-noise power delivery in benchtop and automated test environments. It delivers 0–20 V and 0–10 A at 40°C with fast transient response and integrated protection features including overvoltage, overcurrent, and thermal safeguards. Front panel and analog programming interfaces enable flexible control without requiring GPIB connectivity. Technical Specifications Output Ratings Voltage: 0–20 V Current: 0–10 A (at 40°C); 9 A (at 50°C); 8.5 A (at 55°C) Programming Accuracy (25°C ±5°C) Voltage: 0.06% + 10 mV Current: 0.14% + 13 mA Ripple

and Noise (20 Hz–20 MHz) Voltage RMS: 300 μ V Voltage peak-to-peak: 3 mV Current RMS: 5 mA Regulation Load: 2 mV (voltage), 0.5 mA (current) Line: 0.5 mV (voltage), 0.5 mA (current) Transient Response Recovery time: <100 μ s for 50% load step change; voltage settling to $\pm 0.1\%$ of rating or ± 20 mV (whichever is greater) Protection Fast crowbar, CV/CC crossover, overvoltage protection (± 400 mV accuracy), over-temperature protection, power-up self-test, user-defined power-on state Environmental Operating temperature: 0–55°C Input power: 480 VA, 400 W (full load); 60 W (no load) Dimensions: 425.5 mm W $\times$ 88.1 mm H $\times$ 439 mm D Safety: UL1244, IEC 61010-1, CISPR 11:1990/EN 55011:1991 Group 1 Class B Key Features Selectable input voltage: 87–106 VAC, 104–127 VAC, 191–233 VAC, or 209–250 VAC (47–63 Hz) Fan-speed control minimizes acoustic noise during operation Fast, low-noise outputs suitable for sensitive device testing Local sensing for accurate voltage regulation across load impedances Typical Applications Component and subsystem characterization, automated production testing, device stress and reliability assessment, laboratory power sourcing. Compatibility & Integration Front panel potentiometer and analog control inputs enable direct integration with external controllers. No GPIB or digital interface is provided; analog signal paths are required for remote programming.

Features & description

From manufacturer datasheet

Features

- 200 W analog/front-panel family (6541A through 6545A)

6542A Characteristics / Specifications

PARAMETER	VALUE
Model	6542A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Single Output DC Power Supply
Family	654xA 200 W
Alias	6542A; HP 6542A; Agilent 6542A
Output Voltage	0 to 20 V
Output Current 40 C	0 to 10 A
Output Current 50 C	9 A maximum
Output Current 55 C	8.5 A maximum
Output Power	200 W
Programming Accuracy Voltage	0.06 percent + 10 mV at 25 plus or minus 5 C
Programming Accuracy Current	0.14 percent + 13 mA
Ripple Voltage rms	300 uV (20 Hz to 20 MHz)
Ripple Voltage pp	3 mV
Ripple Current rms	5 mA
Load Regulation Voltage	2 mV
Load Regulation Current	0.5 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	0.5 mA
Remote Interface	analog and front panel (no GPIB on 654xA)
Operating Modes	CV and CC
Protection	OVP overcurrent overtemperature class
Related 6541A	0 to 8 V 200 W class
Related 6543A	0 to 35 V 200 W class
Related 6544A	0 to 60 V 200 W class

PARAMETER	VALUE
Related 6545A	0 to 120 V 200 W class
GPIO Sibling	6642A 20 V 10 A 200 W with GPIO
Higher Power Sibling	6652A 20 V 25 A 500 W with GPIO
Sense	remote sense
Cooling	variable-speed fan
Form	half-rack/system 200 W package
Status	HP/Agilent 654xA EOL Notes Ratings from Agilent 6542A 200 W family tables. Do not assign 6642A GPIO interface to a 6542A faceplate. Confirm current derating versus ambient on the nameplate/manual for the serial prefix.

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
Model	6542A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Single Output DC Power Supply
Specifications	
PARAMETER	VALUE
Family	654xA 200 W
Alias	6542A; HP 6542A; Agilent 6542A
Output Voltage	0 to 20 V
Specifications	
PARAMETER	VALUE
Output Current 40 C	0 to 10 A
Output Current 50 C	9 A maximum
Output Current 55 C	8.5 A maximum
Specifications	
PARAMETER	VALUE
Output Power	200 W
Programming Accuracy Voltage	0.06 percent + 10 mV at 25 plus or minus 5 C
Programming Accuracy Current	0.14 percent + 13 mA
Specifications	
PARAMETER	VALUE
Ripple Voltage rms	300 uV (20 Hz to 20 MHz)
Ripple Voltage pp	3 mV
Ripple Current rms	5 mA

Specifications

PARAMETER	VALUE
Load Regulation Voltage	2 mV
Load Regulation Current	0.5 mA
Line Regulation Voltage	0.5 mV

Specifications

PARAMETER	VALUE
Line Regulation Current	0.5 mA
Remote Interface	analog and front panel (no GPIB on 654xA)
Operating Modes	CV and CC

Specifications

PARAMETER	VALUE
Protection	OVP overcurrent overtemperature class
Related 6541A	0 to 8 V 200 W class
Related 6543A	0 to 35 V 200 W class

Specifications

PARAMETER	VALUE
Related 6544A	0 to 60 V 200 W class
Related 6545A	0 to 120 V 200 W class
GPIB Sibling	6642A 20 V 10 A 200 W with GPIB

Specifications

PARAMETER	VALUE
Higher Power Sibling	6652A 20 V 25 A 500 W with GPIB
Sense	remote sense
Cooling	variable-speed fan

Form: half-rack/system 200 W package

Status: HP/Agilent 654xA EOL

Notes

Ratings from Agilent 6542A 200 W family tables. Do not assign 6642A GPIB interface to a 6542A faceplate. Confirm current derating versus ambient on the nameplate/manual for the 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

Aumictech

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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.