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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6692A 6600-Watt System Power Supply, 60V, 110A

The Agilent 6692A is a single-output, approximately 6600 W GPIB system DC power supply in the 6690A–6692A family. OEM datasheets rate it 0–60 V and 0–110 A with low ripple, SCPI programming, analog programming/monitoring, remote sense, and extensive DUT protection for continuous high-power stress testing. Used for high-power burn-in, base-station and storage-subsystem stress testing, manufacturing ATE requiring high current at up to 60 V, parallel-expandable rack power, and R&D benches needing front-panel plus GPIB control of large DC loads. Average programming resolution current: 30 mA Full load programming rise or fall time 10% to 90%: 100 ms Dimensions: 425.5 mm W × 221.5 mm H × 674.7 mm D Notes Specifications are from the Agilent Models 6690A–6692A System DC Power Supply data sheet (5988-3149EN). Parallel operation is limited to same-model units per OEM guidance.



MODEL

HP / Agilent 6692A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6692A

LISTING

<https://aumictechlabs.com/products/6692a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6692A is a 6600 W DC power supply engineered for high-current test and manufacturing applications. It delivers 0–60 V at 0–110 A with low noise performance (2.5 mV RMS, 25 mV peak-to-peak across 20 Hz to 20 MHz) and programming accuracy of 0.04% + 60 mV for voltage and 0.1% + 65 mA for current. The unit accepts 208 VAC or 400 VAC 3-phase

input (47–63 Hz) and operates from both analog and SCPI command interfaces, integrating readily into automated test systems via GPIB with 20 ms command response time. Remote sense capability compensates for load-lead voltage drops up to half the rated output voltage. Built-in overcurrent, overvoltage, and overtemperature protection guards against DUT damage. Three units can be paralleled to increase current capacity. Its physical footprint matches the Agilent 6680 Series 5000 W supplies, enabling system expansion without additional rack space.

Technical Specifications Output power: 6600 W maximum Voltage: 0–60 V Current: 0–110 A Ripple & noise: 2.5 mV RMS; 25 mV peak-to-peak (20 Hz–20 MHz) Programming accuracy (25 ±5 °C): voltage 0.04% + 60 mV; current 0.1% + 65 mA AC input: 208 VAC (180–235 VAC, 3-phase, 47–63 Hz, 36 A max worst case) or 400 VAC (360–440 VAC, 3-phase, 47–63 Hz, 18 A max worst case) Input power: 9000 VA / 7950 W maximum; 175 W no-load Constant current (RMS): 30 mA (>5 µH load inductance), 50 mA, 200 mA Key Features Dual programming interfaces: SCPI commands and analog voltage/current control Front panel meters and rear panel analog monitoring outputs Remote sense to ±30 V Overcurrent, overvoltage, and overtemperature protection Parallel-capable design (up to 3 units) IVI and VXI Plug & Play driver support 20 ms average response time via GPIB Typical Applications High-power device testing and validation Automated manufacturing test systems Power conversion and battery simulation Thermal stress and endurance testing Compatibility & Integration Physical dimensions: 425.5 W × 221.5 H × 674.7 mm D. Compatible form factor with Agilent 6680 Series for modular rack configurations.

6692A Characteristics / Specifications

PARAMETER	VALUE
Output voltage rating	0 to 60 V
Output current rating	0 to 110 A (derated linearly 1%/°C from 40 to 55 °C)
Constant voltage ripple and noise rms 20 Hz to 20 MHz	1.5 mV
Constant voltage ripple and noise peak to peak 20 Hz to 20 MHz	25 mV
Constant current ripple and noise rms	30 mA (load inductance greater than 5 μ H)
Voltage load regulation	0.002% + 2.2 mV
Current load regulation	0.005% + 9 mA
Voltage line regulation	0.002% + 650 μ V
Current line regulation	0.005% + 9 mA
Transient response time	less than 900 μ s to within 150 mV for 100% to 50% or 50% to 100% current step
DC floating voltage	output terminals floatable to $\pm$ 60 VDC from chassis ground
Remote sensing	up to half rated output voltage drop per load lead
Command processing time	20 ms average for voltage change start after GPIB data
Analog programming voltage input	0 to -5 V
Analog programming current input	0 to +5 V
Analog programming input impedance	30 k Ω or greater
AC input frequency	47 to 63 Hz
AC input Option 2	180 to 235 VAC line to line 3 phase
AC input Option 4	360 to 440 VAC line to line 3 phase
Input power maximum	9000 VA and 7950 W
Average programming resolution voltage	16 mV
Average programming resolution current	30 mA
Full load programming rise or fall time 10% to 90%	100 ms

PARAMETER	VALUE
Dimensions	425.5 mm W × 221.5 mm H × 674.7 mmD Notes Specifications are from the Agilent Models 6690A–6692A System DC Power Supply data sheet (5988-3149EN). Parallel operation is limited to same-model units per OEM guidance.

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

Output voltage rating: 0 to 60 V

Output current rating: 0 to 110 A (derated linearly 1%/°C from 40 to 55 °C)

Voltage programming accuracy at 25 ±5 °C: 0.04% + 60 mV

Current programming accuracy at 25 ±5 °C: 0.1% + 65 mA

Constant voltage ripple and noise rms 20 Hz to 20 MHz: 1.5 mV

Constant voltage ripple and noise peak to peak 20 Hz to 20 MHz: 25 mV

Constant current ripple and noise rms: 30 mA (load inductance greater than 5 µH)

Voltage readback accuracy at 25 ±5 °C: 0.05% + 90 mV

Current readback accuracy at 25 ±5 °C: 0.1% + 80 mA

Specifications

PARAMETER	VALUE
Voltage load regulation	0.002% + 2.2 mV
Current load regulation	0.005% + 9 mA
Voltage line regulation	0.002% + 650 µV
Current line regulation	0.005% + 9 mA
Transient response time	less than 900 µs to within 150 mV for 100% to 50% or 50% to 100% current step
DC floating voltage	output terminals floatable to ±60 VDC from chassis ground
Remote sensing	up to half rated output voltage drop per load lead
Command processing time	20 ms average for voltage change start after GPIB data
Analog programming voltage input	0 to -5 V
Analog programming current input	0 to +5 V
Analog programming input impedance	30 kΩ or greater
AC input frequency	47 to 63 Hz
AC input Option 208	180 to 235 VAC line to line 3 phase
AC input Option 400	360 to 440 VAC line to line 3 phase
Input power maximum	9000 VA and 7950 W
Average programming resolution voltage	16 mV
Average programming resolution current	30 mA

Full load programming rise or fall time 10% to 90%: 100 ms

Dimensions: 425.5 mm W × 221.5 mm H × 674.7 mmD Notes

Specifications are from the Agilent Models 6690A-6692A System DC Power Supply data sheet (5988-3149EN).

Parallel operation is limited to same-model units per OEM guidance.

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 ·
30-day returns
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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.