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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6671A DC Power Supply

HP Agilent 6671A Single-Output 2000 W System DC Power Supply The Agilent 6671A is a single-output 2000 W class GPIB DC power supply in the 6670A series. OEM datasheet ratings are 8 V / 220 A, combining high efficiency with low ripple for accurate built-in voltage and current measurements. High-power ATE rack bias, base-station and power-electronics manufacturing test, and multi-supply serial-link systems sharing one GPIB address at up to 2000 W per unit. Analog control of output voltage and current The Agilent 6671A is a single-output 2000 W class GPIB DC power supply in the 6670A series. OEM datasheet ratings are 8 V / 220 A, combining high efficiency with low ripple for accurate built-in voltage and current measurements. High-power ATE rack bias, base-station and power-electronics manufacturing test, and multi-supply serial-link systems sharing one GPIB address at up to 2000 W per unit. Analog control of output voltage and current Fan-speed control to minimize acoustic noise



MODEL

**Agilent / Keysight
6671A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6671A

LISTING

<https://aumictechlabs.com/products/6671a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6671A is a 2000 W DC power supply engineered for high-current applications requiring precision voltage and current regulation. Single output delivers 0 to 8 Vdc at 0 to 220 A, with programmable constant voltage (CV) and constant current (CC) operation modes. GPIB interface enables remote control and integration into automated test systems. The unit combines tight load regulation, low ripple performance, and comprehensive protection - including

programmable overvoltage, overcurrent, and over-temperature safeguards - making it suitable for demanding industrial and laboratory environments.

Technical Specifications Output voltage ranges from 0 to 8 Vdc with output current from 0 to 220 A, delivering 1760 W actual output power. Programming accuracy (at 25°C ±5°C) specifies voltage to 0.04% + 8 mV and current to 0.1% + 125 mA. Load regulation holds voltage to 0.002% + 300 µV and current to 0.005% + 10 mA. Ripple and noise performance (20 Hz to 20 MHz) measures 650 µV rms and 7 mV peak-to-peak for voltage; current ripple reaches 200 mA rms. Readback accuracy (at 25°C ±5°C) provides voltage measurement to 0.05% + 12 mV and current to 0.1% + 150 mA. AC input operates from 191 to 250 Vac, 47–63 Hz.

Key Features Programmable over-voltage, over-current, and over-temperature protection GPIB interface with SCPI programming and talker/listener functionality Auto-parallel capability supporting up to five units; serial link allows up to 16 supplies on single GPIB bus Series and parallel output configurations supported Analog control of voltage and current with user-definable power-on state Fan-speed control for acoustic noise reduction Self-test via GPIB command at power-on Discrete Fault Indicator/Remote Inhibit (DFI/RI) output VXI plug & play drivers available for system integration

Typical Applications High-current DC power delivery for materials testing, semiconductor device characterization, electrochemistry, power converter validation, and automated production test systems.

Compatibility & Integration Compatible with Agilent measurement and control software. VXI plug & play drivers support integration into VXI systems. Dimensions: 133 mm H × 426 mm W × 640 mm D. Weight: 62 lb.

Features & description

From manufacturer datasheet

Built-in measurements and programmable protection features

VXIplug&play and IVI-COM drivers Technical Specifications Number of Outputs: 1 GPIB: Yes Output Voltage: 0 to 8 V Output Current: 0 to 220 A Maximum Power Class: 2000 W Programming Accuracy Voltage 25 ± 5 C: 0.04% + 8 mV Programming Accuracy Current: 0.1% + 125 mA Ripple Voltage RMS 20 Hz to 20 MHz: 650 μ V Ripple Voltage Peak to Peak: 7 mV Ripple Current RMS: 200 mA Readback Accuracy Voltage: 0.05% + 12 mV Readback Accuracy Current: 0.1% + 150 mA Load and Line Regulation Voltage: 0.002% + 300 μ V Load and Line Regulation Current: 0.005% + 10 mA Average Programming Resolution Voltage: 2 mV Average Programming Resolution Current: 55 mA OVP Programming Resolution: 15 mV Output Voltage Programming Response Time Full Load: 30 ms Transient Response Time: Less than 900 μ s to within 100 mV for 50% load step Command Processing Time: 20 ms average DC Floating Voltage: ± 240 VDC Common Mode Noise Current RMS: 500 μ A Common Mode Noise Current Peak to Peak: 4 mA Analog Programming Voltage Input: 0 to -4 V Analog Programming Current Input: 0 to 7 V Analog Programming Input Impedance: 60 k Ω m or greater Input Power Full Load: 3800 VA, 2600 W Input Power No Load: 170 W Size: 425.5 mmWx 132.6 mmHx 640 mmDNet Weight: 28.2 kg (62 lb)

6671A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIO	Yes
Output Voltage	0 to 8 V
Output Current	0 to 220 A
Maximum Power Class	2000 W
Programming Accuracy Current	0.1% + 125 mA
Ripple Voltage RMS 20 Hz to 20 MHz	650 μ V
Ripple Voltage Peak to Peak	7 mV
Ripple Current RMS	200 mA
Readback Accuracy Voltage	0.05% + 12 mV
Readback Accuracy Current	0.1% + 150 mA
Load and Line Regulation Voltage	0.002% + 300 μ V
Load and Line Regulation Current	0.005% + 10 mA
Average Programming Resolution Voltage	2 mV
Average Programming Resolution Current	55 mA
OVP Programming Resolution	15 mV
Output Voltage Programming Response Time Full Load	30 ms
Transient Response Time	Less than 900 μ s to within 100 mV for 50% load step
Command Processing Time	20 ms average
DC Floating Voltage	$\pm$ 240 VDC
Common Mode Noise Current RMS	500 μ A
Common Mode Noise Current Peak to Peak	4 mA
Analog Programming Voltage Input	0 to -4 V

PARAMETER	VALUE
Analog Programming Current Input	0 to 7 V
Analog Programming Input Impedance	60 kOhm or greater
Input Power Full Load	3800 VA, 2600 W
Input Power No Load	170 W
Size	425.5 mmWx 132.6 mmHx 640 mmDNet Weight: 28.2 kg (62 lb)
Shipping Weight	31.8 kg (70 lb)

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
Number of Outputs	1
GPiB	Yes
Output Voltage	0 to 8 V
Output Current	0 to 220 A
Maximum Power Class	2000 W
Programming Accuracy Voltage 25±5 C: 0.04% + 8 mV Programming Accuracy Current: 0.1% + 125 mA Ripple Voltage RMS 20 Hz to 20 MHz: 650 uV	
Specifications	
PARAMETER	VALUE
Ripple Voltage Peak to Peak	7 mV
Ripple Current RMS	200 mA
Readback Accuracy Voltage	0.05% + 12 mV
Readback Accuracy Current	0.1% + 150 mA
Load and Line Regulation Voltage	0.002% + 300 uV
Load and Line Regulation Current	0.005% + 10 mA
Average Programming Resolution Voltage	2 mV
Average Programming Resolution Current	55 mA
OVP Programming Resolution	15 mV
Output Voltage Programming Response Time Full Load	30 ms
Transient Response Time	Less than 900 us to within 100 mV for 50% load step
Command Processing Time	20 ms average
DC Floating Voltage	±240 VDC
Common Mode Noise Current RMS	500 uA
Common Mode Noise Current Peak to Peak	4 mA
Analog Programming Voltage Input	0 to -4 V

PARAMETER	VALUE
Analog Programming Current Input	0 to 7 V
Analog Programming Input Impedance	60 kOhm or greater
Input Power Full Load	3800 VA, 2600 W
Input Power No Load	170 W
Size	425.5 mmWx 132.6 mmHx 640 mmDNet Weight: 28.2 kg (62 lb)
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Notes

Specs from Agilent 6670A Series Single-Output 2000 W DC Power Supplies data sheet 5990-9306EN, 6671A column. Programming response time is full-load 10/90% rise/fall excluding command processing.

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.