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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6804B

Operating Temperature: 0 to 40 C, 20 to 80 percent RH non-condensing Interfaces: IEEE 802.3 100Base-TX LXI 1.4 Class C, USB 2.0 USBTMC; GPIB optional Save Recall States: up to ten non-volatile states From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6804B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU. Interfaces: IEEE 802.3 100Base-TX LXI 1.4 Class C, USB 2.0 USBTMC; GPIB optional Save Recall States: up to ten non-volatile states From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6804B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU.



MODEL

**Agilent / Keysight
AC6804B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6804B

LISTING

<https://aumictechlabs.com/products/ac6804b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AC6804B is a 4 kVA AC/DC power source engineered for comprehensive testing of electronic equipment across variable power conditions. It delivers stable AC output to 310 Vrms at 20 A, or DC output to 438 V at 16 A, with programmable control over voltage, frequency, and current. The instrument operates from standard single-phase mains (100–240 Vrms, 50/60 Hz) and accommodates load power factors from 0 to 1 in either leading or lagging configuration. Front-panel operation and remote control via LAN/LXI, USB, or optional GPIB interfaces enable flexible test automation and monitoring. Technical Specifications AC Output Maximum power: 4000 VA

Voltage ranges: 155 Vrms (low) / 310 Vrms (high) Current: 40 A (low range) / 20 A (high range)
Frequency: 40 Hz to 500 Hz Voltage setting accuracy: 0.3% of full scale (low) / 0.25% of full scale (high) Load power factor: 0 to 1 (leading or lagging) DC Output Voltage ranges: 219 V (low) / 438 V (high) Current: 32 A (low range) / 16 A (high range) Power capacity: 3.2 kW Input Requirements Nominal voltage: 100–120 Vrms / 200–240 Vrms, 50/60 Hz, single-phase Input voltage range: 90–132 Vrms / 180–264 Vrms (auto-detected) Input frequency: 47 Hz to 63 Hz Apparent power draw: ≤ 6400 VA Input current: 32 A / 16 A (@100 V / 200 V) or 53.6 A / 28.0 A (@120 V / 230 V) Measurements Voltage, current, and power measurements in AC, DC, and AC+DC modes. Key Features Dual output mode: simultaneous AC and DC simulation with independent control Wide frequency range (40–500 Hz) for global power condition emulation Voltage setting accuracy to 0.25% supports strict compliance testing Built-in web server for browser-based remote monitoring and control M6 terminal blocks for input and output connections Typical Applications Simulating global AC power standards and varying frequency scenarios Testing equipment across multiple voltage and frequency combinations Power factor correction and load behavior characterization Product safety and compliance validation under diverse power conditions Compatibility & Integration LAN/LXI Core and USB standard GPIB optional Operating temperature: 0–40 °C (non-condensing) Installation Category II, Pollution Degree 2, indoor industrial use Dimensions: 428 × 262 × 611 mm; Weight: 31 kg

Features & description

From manufacturer datasheet

Built-in RMS AC DC and power measurements

LAN LXI Core browser control and USB Optional analog card for non-sinusoidal transients Save and recall ten instrument states Technical Specifications Model: AC6804B Instrument Type: Basic AC power source Output Phases: Single Maximum Ac Power: 4000 VA (4 kVA) Ac Voltage Ranges: 1 to 155 Vrms / 2 to 310 Vrms Voltage Setting Accuracy Ac: 0.35 percent of full scale at 13.5 to 155 V / 27 to 310 V, no load, 23 plus or minus 5 C Maximum Rms Current: 40 A / 20 A (1 to 100 V / 2 to 200 V; power-limited above) Frequency Setting Range: 40 to 500 Hz Frequency Accuracy: plus or minus 0.02 percent Dc Voltage Ranges: 1.4 to 219 V / 2.8 to 438 V Dc Voltage Setting Accuracy: 0.3 percent of full scale / 0.25 percent of full scale at 19 to 219 V / 38 to 438 V, no load, 23 plus or minus 5 C Maximum Dc Current: 32 A / 16 A Maximum Dc Power: 3200 W Load Regulation 40 To 100 Hz: plus or minus 0.15 V / plus or minus 0.3 V Voltage Measurement Accuracy 45 To 65 Hz: plus or minus (0.5 percent of reading plus 0.35 V / 0.7 V) at 23 plus or minus 5 C Current Measurement Accuracy 45 To 65 Hz: plus or minus (0.5 percent of reading plus 0.16 A / 0.08 A) Ac Power Accuracy 45 To 65 Hz: plus or minus (2 percent of reading plus 4 W)

AC6804B Characteristics / Specifications

PARAMETER	VALUE
Model	AC6804B
Instrument Type	Basic AC power source
Output Phases	Single
Maximum Ac Power	4000 VA (4 kVA)
Ac Voltage Ranges	1 to 155 Vrms / 2 to 310 Vrms
Voltage Setting Accuracy Ac	0.35 percent of full scale at 13.5 to 155 V / 27 to 310 V, no load, 23 plus or minus 5 C
Maximum Rms Current	40 A / 20 A (1 to 100 V / 2 to 200 V; power-limited above)
Frequency Setting Range	40 to 500 Hz
Frequency Accuracy	plus or minus 0.02 percent
Dc Voltage Ranges	1.4 to 219 V / 2.8 to 438 V
Dc Voltage Setting Accuracy	0.3 percent of full scale / 0.25 percent of full scale at 19 to 219 V / 38 to 438 V, no load, 23 plus or minus 5 C
Maximum Dc Current	32 A / 16 A
Maximum Dc Power	3200 W
Load Regulation 40 To 100 Hz	plus or minus 0.15 V / plus or minus 0.3 V
Voltage Measurement Accuracy 45 To 65 Hz	plus or minus (0.5 percent of reading plus 0.35 V / 0.7 V) at 23 plus or minus 5 C
Current Measurement Accuracy 45 To 65 Hz	plus or minus (0.5 percent of reading plus 0.16 A / 0.08 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 4 W)
Programmable Voltage Range	0 to 157.5 Vrms / 0 to 315 Vrms
Voltage Setting Resolution	0.1 V
Frequency Setting Resolution	0.1 Hz
Voltage Thd	0.5 percent or less at 50 to 155 V / 100 to 310 V, pf 1, AC mode
Efficiency Typical	70 percent or greater
Maximum Repetitive Peak Current	120 A / 60 A

PARAMETER	VALUE
Dc Programmable Voltage	minus 222.5 to 222.5 V / minus 445 to 445 V
Ripple Noise Typical	0.7 Vrms / 1.4 Vrms (5 Hz to 1 MHz)
Temperature Coefficient Typical	100 ppm perCResponse Time Typical: 150 us in DC mode
Line Regulation	plus or minus 0.15 percent of full scale
Input Voltage Range	90 to 132 Vrms / 180 to 264 Vrms auto detected, 47 to 63 Hz
Apparent Input Power	6400 VA or less
Power Factor Typical	0.9
Input Current At 100 V 200 V	64 A / 32 A or less
Isolation To Ground	310 Vrms or 438 VDC
Insulation Resistance	500 Vdc, 30 Mohm or more
Withstand Voltage	1.5 kV AC for 1 minute
Operating Temperature	0 to 40 C, 20 to 80 percent RH non-condensing
Dimensions	429 × 262 × 613.5 mm
Mass	approximately 31 kg
Interfaces	IEEE 802.3 100Base-TX LXI 1.4 Class C, USB 2.0 USBTMC; GPIB optional
Save Recall States	up to ten non-volatile states
Manufacturer	Keysight Agilent

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C, 20 to 80 percent RH non-condensing
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Manufacturer	Keysight Agilent Notes From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6804B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU.

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 are warranted 0 to 40 C after 30 minute warm-up for three years.

Applications

Global AC-line simulation, 400 Hz avionics electronics, 277 VAC plus 10 percent lighting-ballast test, and AC plus DC ripple evaluation.

Key Features

155 Vrms / 310 Vrms dual AC ranges

Built-in RMS AC DC and power measurements

LAN LXI Core browser control and USB

Optional analog card for non-sinusoidal transients

Save and recall ten instrument states

Technical Specifications

Technical Specifications

PARAMETER	VALUE
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Output Phases	Single
Maximum Ac Power	4000 VA (4 kVA)
Ac Voltage Ranges	1 to 155 Vrms / 2 to 310 Vrms
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Current Measurement Accuracy 45 To 65 Hz	plus or minus (0.5 percent of reading plus 0.16 A / 0.08 A)
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Frequency Setting Resolution	0.1 Hz
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Maximum Repetitive Peak Current	120 A / 60 A
Dc Programmable Voltage	minus 222.5 to 222.5 V / minus 445 to 445 V
Ripple Noise Typical	0.7 Vrms / 1.4 Vrms (5 Hz to 1 MHz)
Temperature Coefficient Typical	100 ppm per C
Response Time Typical	150 us in DC mode
Line Regulation	plus or minus 0.15 percent of full scale
Input Voltage Range	90 to 132 Vrms / 180 to 264 Vrms auto detected, 47 to 63 Hz
Apparent Input Power	6400 VA or less
Power Factor Typical	0.9
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Notes

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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.