


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6801B

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. AC6801B 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. AC6801B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU.



MODEL

**Agilent / Keysight
AC6801B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6801B

LISTING

<https://aumictechlabs.com/products/ac6801b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AC6801B is a 500 VA AC power source engineered for testing and evaluation of electronic devices across diverse power conditions. It delivers stable, programmable output across dual voltage and current ranges, with maximum peak currents reaching 15 A at 155 Vrms and 7.5 A at 310 Vrms. The instrument operates from 40 Hz to 500 Hz and includes DC output capability up to 400 W, making it suitable for both AC and DC testing scenarios. Built-in measurement functions capture voltage, current, and power in AC, DC, and AC+DC modes, with inrush current characterization via phase-angle control. Remote sensing and programmable

output enable precise power conditioning for real-world simulation including non-ideal networks, voltage fluctuation, and transient spike injection.

Technical Specifications

AC Output Maximum power: 500 VA Voltage ranges: 155 Vrms (low), 310 Vrms (high) Current ranges: 5 A (low), 2.5 A (high) Peak current: 15 A @ 155 Vrms; 7.5 A @ 310 Vrms Frequency range: 40 Hz to 500 Hz

DC Output Maximum power: 400 W Voltage ranges: 219 V (low), 438 V (high) Current ranges: 4 A (low), 2 A (high)

Measurement Capability AC, DC, and AC+DC measurement modes. Inrush current measurement via phase-angle control.

Physical Dimensions: 368 mm × 429 mm × 128 mm

Weight: 11 kg

Key Features Programmable output with remote sensing N6700 style user interface Transient and voltage sag/swell simulation Dual-range voltage and current switching

Typical Applications Universal power supply testing, avionic electronics (400 Hz operation), commercial light drivers and ballasts, AC power adapters, LED lighting ballast characterization.

Compatibility & Integration Standard interfaces: LAN/LXI Core, USB. Optional GPIB. Class 1 safety-grounded instrument. Requires 20 cm clearance (front and rear) for airflow.

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: AC6801B Instrument Type: Basic AC power source Output Phases: Single Maximum Ac Power: 500 VA 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: 5 A / 2.5 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: 4 A / 2 A Maximum Dc Power: 400 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 0.02 A / 0.01 A) Ac Power Accuracy 45 To 65 Hz: plus or minus (2 percent of reading plus 0.5 W)

AC6801B Characteristics / Specifications

PARAMETER	VALUE
Model	AC6801B
Instrument Type	Basic AC power source
Output Phases	Single
Maximum Ac Power	500 VA
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	5 A / 2.5 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	4 A / 2 A
Maximum Dc Power	400 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 0.02 A / 0.01 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 0.5 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	15 A / 7.5 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	800 VA or less
Power Factor Typical	0.9
Input Current At 100 V 200 V	8 A / 4 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 × 128 × 368 mm
Mass	approximately 8 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
Operating Temperature	0 to 40 C, 20 to 80 percent RH non-condensing
Dimensions	429 × 128 × 368 mm
Mass	approximately 8 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 Notes From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6801B 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
Model	AC6801B
Instrument Type	Basic AC power source
Output Phases	Single
Maximum Ac Power	500 VA
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	5 A / 2.5 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	4 A / 2 A
Maximum Dc Power	400 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 0.02 A / 0.01 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 0.5 W)
Programmable Voltage Range	0 to 157.5 Vrms / 0 to 315 Vrms
Voltage Setting Resolution	0.1 V

PARAMETER	VALUE
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	15 A / 7.5 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	800 VA or less
Power Factor Typical	0.9
Input Current At 100 V 200 V	8 A / 4 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 x 128 x 368 mm
Mass	approximately 8 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

Technical Specifications

PARAMETER	VALUE
Model	AC6801B
Instrument Type	Basic AC power source
Output Phases	Single
Maximum Ac Power	500 VA
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	5 A / 2.5 A (1 to 100 V / 2 to 200 V; power-limited above)

PARAMETER	VALUE
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	4 A / 2 A
Maximum Dc Power	400 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 0.02 A / 0.01 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 0.5 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	15 A / 7.5 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 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	800 VA or less
Power Factor Typical	0.9
Input Current At 100 V 200 V	8 A / 4 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 x 128 x 368 mm
Mass	approximately 8 kg
Interfaces	IEEE 802.3 100Base-TX LXI 1.4 Class C, USB 2.0 USBTMC; GPIB optional

PARAMETER	VALUE
Save Recall States	up to ten non-volatile states
Manufacturer	Keysight Agilent

Notes

From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6801B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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