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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6802B

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. AC6802B 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. AC6802B currents, power, size, and measurement additives are the model row. Analog transients require AC68BALGU.



MODEL

**Agilent / Keysight
AC6802B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6802B

LISTING

<https://aumictechlabs.com/products/ac6802b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AC6802B is a 1000 VA single-phase AC power source engineered for precision power delivery across test, validation, and research environments. It generates both AC and DC output with independent voltage and current ratings, enabling simulation of diverse power conditions and load scenarios. The instrument combines flexible frequency control, multi-range voltage selection, and integrated measurement capabilities into a compact 6.12 kg package. Technical Specifications AC Output Maximum output power: 1000 VA Voltage ranges: 155 Vrms (low) / 310 Vrms (high) Maximum RMS current: 10 A (155 V) / 5 A (310 V) Peak current

capability: 30 A (155 V) / 15 A (310 V) Frequency range: 40 Hz to 500 Hz at $\pm 0.02\%$ accuracy
Load power factor: 0 to 1 (leading or lagging) Voltage stability: 100 ppm/ $^{\circ}\text{C}$ (typical) Output
voltage response time: 150 μs (typical) Line regulation: $\pm 0.15\%$ of full scale Voltage setting
accuracy: 0.35% of full scale DC Output Maximum output power: 800 W Voltage ranges: 219 V
(low) / 438 V (high) Maximum RMS current: 8 A (219 V) / 4 A (438 V) Input Requirements Nominal
input: 100–120 Vrms or 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 Power factor: 0.9 (typical)Key
Features Dual AC and DC output modes with independent power ratings Programmable frequency
generation across 40 Hz to 500 Hz Precision measurement suite: voltage, current, power, AC, DC,
and AC+DC modes Remote sensing for load-end regulation Protective circuits: overvoltage (OVP),
overcurrent (OCP), overtemperature (OTP), overpressure (OPP) IEC Safety Class I ratedTypical
Applications Power supply testing and validation Component and subsystem stress testing across
variable frequency and voltage conditions AC/DC load simulation Power factor and harmonics
characterizationCompatibility & Integration USB-TMC and USB-CDC (Virtual COM) interfaces
LAN/LXI Core connectivity Optional GPIB interface Operating temperature: 0 to 40 $^{\circ}\text{C}$ Compact
form factor: 368 × 429 × 128 mm

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: AC6802B Instrument Type: Basic AC power source Output Phases: Single Maximum Ac Power: 1000 VA (1 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: 10 A / 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: 8 A / 4 A Maximum Dc Power: 800 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 0.04 A / 0.02 A) Ac Power Accuracy 45 To 65 Hz: plus or minus (2 percent of reading plus 1 W)

AC6802B Characteristics / Specifications

PARAMETER	VALUE
Model	AC6802B
Instrument Type	Basic AC power source
Output Phases	Single
Maximum Ac Power	1000 VA (1 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	10 A / 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	8 A / 4 A
Maximum Dc Power	800 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 0.04 A / 0.02 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 1 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	30 A / 15 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	1600 VA or less
Power Factor Typical	0.9
Input Current At 100 V 200 V	16 A / 8 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 11 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
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Manufacturer	Keysight Agilent Notes From Keysight AC6800B Series Basic AC Power Sources datasheet. AC6802B 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

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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	8 A / 4 A
Maximum Dc Power	800 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 0.04 A / 0.02 A)
Ac Power Accuracy 45 To 65 Hz	plus or minus (2 percent of reading plus 1 W)
Programmable Voltage Range	0 to 157.5 Vrms / 0 to 315 Vrms
Voltage Setting Resolution	0.1 V

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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
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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	1600 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

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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.