

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 6811B Performance AC Power Source, 375 VA, 300 V, 3.25 A

Power VA measurement accuracy high range 45 to 100 Hz: 0.1% + 1.5 VA + 12 mVA/V Power watts measurement accuracy high range 45 to 100 Hz: 0.1% + 0.3 W + 12 mW/V Frequency measurement accuracy: 0.01% + 0.01 Hz Values are from Keysight/Agilent 6800B Series AC Power Source/Analyzer datasheets for model 6811B. Supplemental AC-input current and size/weight figures vary by line option; confirm on the specific unit. Power watts measurement accuracy high range 45 to 100 Hz: 0.1% + 0.3 W + 12 mW/V Frequency measurement accuracy: 0.01% + 0.01 Hz Values are from Keysight/Agilent 6800B Series AC Power Source/Analyzer datasheets for model 6811B. Supplemental AC-input current and size/weight figures vary by line option; confirm on the specific unit.



MODEL

HP / Agilent 6811B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6811B

LISTING

<https://aumictechlabs.com/products/6811b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 6811B is a 375 VA AC power source combining power amplification, arbitrary waveform generation, and integrated power analysis in a single instrument. It delivers precise AC and DC power for component testing, system development, and quality assurance, eliminating the need for separate power supplies, function generators, and measurement equipment. The built-in 16-bit measurement system captures RMS voltage and current, real/apparent/reactive power, total

harmonic distortion, and harmonic content to the 50th order. Peak current capability reaches 40 A repetitive and non-repetitive, with a 12 crest factor. The unit generates standard waveforms (sine, square, clipped sine, triangular) plus user-definable and transient disturbance profiles across DC through 1 kHz. Regulation performance holds line regulation to 0.1% and load regulation to 0.5%, with maximum THD of 1% worst case. RMS voltage accuracy reaches 0.03% + 100 mV at 45–100 Hz; current accuracy 0.05% + 10 mA on the high range. DC output extends to ± 425 V at 2.5 A (285 W). The instrument occupies 128 mm height, 425.5 mm width, and 574.7 mm depth, operating indoors to 2000 m altitude and 95% relative humidity. GPIB and RS-232 interfaces support SCPI programming. Remote inhibit, discrete fault indication, and external trigger connectivity via TTL/BNC connectors enable integration into automated test systems. Sense connections allow remote voltage measurement at the load. Safety Class 1 design includes protective earth terminal.

6811B Characteristics / Specifications

PARAMETER	VALUE
Number of phases	1
Maximum output power	375 VA
Maximum rms voltage	300 V
Maximum rms current	3.25 A
Repetitive and nonrepetitive peak current	40 A
Crest factor	12
Load power factor capability	0 to 1
DC power	285 W
DC voltage	±425 V
DC current	2.5 A
Output frequency range	DC; 45 Hz to 1 kHz (DC to 45 Hz with derating)
Constant voltage ripple and noise 20 kHz to 10 MHz	–60 dB relative to full scale
Line regulation	0.1% of full scale
Load regulation	0.5% of full scale
Maximum total harmonic distortion at 50/60 Hz	0.25%
Maximum THD worst case 45 Hz to 1 kHz	1%
RMS voltage programming accuracy 45 to 100 Hz	0.15% + 0.3 V (at 25 ±5 °C)
RMS voltage programming accuracy greater than 100 to 500 Hz	0.5% + 0.3 V
RMS voltage programming accuracy greater than 500 to 1000 Hz	1% + 0.3 V
DC voltage programming accuracy	0.1% + 0.5 V
Frequency programming accuracy	0.01% + 10 µHz
RMS voltage measurement accuracy 45 to 100 Hz	0.03% + 100 mV

PARAMETER	VALUE
DC voltage measurement accuracy	0.05% + 150 mV
RMS current measurement accuracy high range 45 to 100 Hz	0.05% + 10 mA
RMS current measurement accuracy low range 45 to 100 Hz	0.05% + 1.5 mA
Power VA measurement accuracy high range 45 to 100 Hz	0.1% + 1.5 VA + 12 mVA/V
Power watts measurement accuracy high range 45 to 100 Hz	0.1% + 0.3 W + 12 mW/V
Frequency measurement accuracy	0.01% + 0.01 Hz
Power factor measurement accuracy	0.01
Remote interfaces	GPIB and RS-232

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 phases	1
Maximum output power	375 VA
Maximum rms voltage	300 V
Maximum rms current	3.25 A
Repetitive and nonrepetitive peak current	40 A
Crest factor	12
Load power factor capability	0 to 1
DC power	285 W
DC voltage	±425 V
DC current	2.5 A
Output frequency range	DC; 45 Hz to 1 kHz (DC to 45 Hz with derating)

Constant voltage ripple and noise 20 kHz to 10 MHz: -60 dB relative to full scale

Specifications

PARAMETER	VALUE
Line regulation	0.1% of full scale
Load regulation	0.5% of full scale
Maximum total harmonic distortion at 50/60 Hz	0.25%

Maximum THD worst case 45 Hz to 1 kHz: 1%
RMS voltage programming accuracy 45 to 100 Hz: 0.15% + 0.3 V (at 25 ±5 °C)
RMS voltage programming accuracy greater than 100 to 500 Hz: 0.5% + 0.3 V
RMS voltage programming accuracy greater than 500 to 1000 Hz: 1% + 0.3 V
DC voltage programming accuracy: 0.1% + 0.5 V
Frequency programming accuracy: 0.01% + 10 µHz
RMS voltage measurement accuracy 45 to 100 Hz: 0.03% + 100 mV
DC voltage measurement accuracy: 0.05% + 150 mV
RMS current measurement accuracy high range 45 to 100 Hz: 0.05% + 10 mA
RMS current measurement accuracy low range 45 to 100 Hz: 0.05% + 1.5 mA
Power VA measurement accuracy high range 45 to 100 Hz: 0.1% + 1.5 VA + 12 mVA/V
Power watts measurement accuracy high range 45 to 100 Hz: 0.1% + 0.3 W + 12 mW/V

Specifications

PARAMETER	VALUE
Frequency measurement accuracy	0.01% + 0.01 Hz
Power factor measurement accuracy	0.01
Remote interfaces	GPIB and RS-232

Notes
Values are from Keysight/Agilent 6800B Series AC Power Source/Analyzer datasheets for model 6811B.
Supplemental AC-input current and size/weight figures vary by line option; confirm on the specific unit.

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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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.