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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6811A DC Power Supply

Measurement Functions: voltage current power harmonics THD class List Mode: trigger paced dwell without computer intervention Application Standards Class: regulatory AC compliance stimulus support DC Capability: yes on 6811A 6812A 6813A class Agilent HP 6811A AC Power Source Analyzer 375 VA The HP/Agilent 6811A is a single-phase AC power source/analyzer in the 6800 series. OEM product literature rates 300 Vrms, 375 VA, 45 Hz to 1 kHz AC output and DC to 425 V / 285 W. Power-supply and UPS testing, PFC equipment stimulus, and IEC-oriented AC line simulation with built-in power analysis. Harmonic analysis to the 50th harmonic for output frequencies 250 Hz or less



MODEL

**Agilent / Keysight
6811A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6811A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6811A is a single-phase AC power source and analyzer delivering 375 VA of programmable output power for versatile bench-top testing. It generates AC voltages from 0 to 300 Vrms and DC voltages up to ± 425 V, with simultaneous AC and DC output capability including arbitrary waveform generation. The instrument sources AC current to 3.25 A rms and DC current to 2.5 A across a frequency range of DC through 45 Hz to 1 kHz, with extended measurement capability down to 4.5 Hz at full accuracy. Technical Specifications Output Performance: AC voltage: 0 to 300 Vrms DC voltage: ± 425 V AC current: 0 to 3.25 A rms DC current: 0 to 2.5 A Output power: 375 VA single-phase Frequency range: DC, 45 Hz to 1 kHz (4.5 Hz minimum with

250 μ s digitization at ≤ 4 kHz content) Line regulation: 0.1% Load regulation: 0.5% Ripple and noise (20 kHz–10 MHz): –60 dB relative to full scale THD (50/60 Hz): 0.25% maximum; 1% worst case at 45 Hz Measurement Capabilities: AC RMS voltage, DC voltage, AC+DC voltage, AC RMS current, DC current, AC+DC current, peak voltage, peak current, real power, apparent power, reactive power, and harmonic analysis up to the 50th harmonic with amplitude and phase. Two current measurement ranges provide 10:1 sensitivity enhancement on the low range. Waveform Generation: Sine, square, and up to 12 user-defined arbitrary waveforms with programmable voltage, current limit, frequency, phase, and distortion. DC output can be applied independently or as an offset to AC signals. Measurement Accuracy: RMS voltage: 0.15% + 0.3 V (at 25°C $\pm$ 5°C) RMS voltage resolution: 10 mV measurement; 125 mV programming RMS current programming accuracy: 1.2% + 50 mA Key Features Programmable output impedance Harmonic analysis with THD measurement Waveform digitization capability Dual current measurement ranges for enhanced low-current sensitivity Typical Applications Power supply testing, UPS evaluation, avionics ATE, and regulatory compliance testing requiring AC/DC source simulation and power parameter measurement. Compatibility & Integration HP-IB (IEEE-488) and RS-232 interfaces with SCPI command language. Analog programming terminals available. Class I benchtop instrument requiring connection to grounded earth terminal (5.25 inch panel height).

6811A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	AC power source analyzer
Series Family	HP Agilent 6800
AC Apparent Power	375 VA
AC RMS Voltage Maximum	300 Vrms
AC RMS Current	3.25 A
AC Frequency Range	45 Hz to 1 kHz
Repetitive Nonrepetitive Peak Current	40 A
Crest Factor	12
DC Output Voltage Maximum	425 V
DC Power	285 W
Waveform Types	sine square clipped sine arbitrary
Clipped Sine Distortion Range	0 percent to 43 percent
User Arbitrary Waveform Storage	up to 12 nonvolatile waveforms
Measurement Resolution	16 bit
Harmonic Analysis Order	up to 50th for output frequency 250 Hz or less
Phases	single phase
Remote Interface	GPIB
Input Frequency	47 to 63 Hz
Topology	low noise switching
Measurement Functions	voltage current power harmonics THD class
List Mode	trigger paced dwell without computer intervention
Application Standards Class	regulatory AC compliance stimulus support
DC Capability	yes on 6811A 6812A 6813A class
Front Panel	full local control plus bus control
Family Peers	6812A 6813A higher VA models

6811A Specifications

PARAMETER	VALUE
Agilent HP 6811A AC Power Source Analyzer 375 VA	Overview
Built in power analyzer measurements	Harmonic analysis to the 50th harmonic for output frequencies 250 Hz or less
List transient mode for sequenced settings	Low noise switching topology in compact package
Technical Specifications	Instrument Type: AC power source analyzer
Notes	Numeric capability rows from Keysight/HP 6811A AC Power Source Analyzer product datasheet and catalog summaries.

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	
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Remote Interface	GPIO
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Notes

Numeric capability rows from Keysight/HP 6811A AC Power Source Analyzer product datasheet and catalog summaries.

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.