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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6811C DC Power Supply

Agilent Keysight 6811C AC Power Source Analyzer 375 VA The Keysight 6811C is a 6800C Series AC power source/analyzer. OEM data sheet rates 375 VA, 300 Vrms, 3.25 Arms, with built-in measurements and LAN/USB/GPIB. AC product test, avionics line simulation, and regulatory AC source applications at 375 VA. Arbitrary waveforms and harmonic analysis class

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Instrument Type: AC power source analyzer



MODEL

**Agilent / Keysight
6811C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6811C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 6811C is a dual-function AC/DC power source and integrated analyzer for precision power testing and waveform simulation. It synthesizes arbitrary AC waveforms and DC bias across a wide voltage range while simultaneously measuring voltage, current, power, and harmonic content in real time. The instrument integrates power amplification, arbitrary waveform generation, and multi-domain analysis - equivalent to a multimeter, oscilloscope, and harmonic analyzer - into a single benchtop unit. Built-in protection against overvoltage and overpower conditions safeguards connected loads. Communications via LXI-LAN, USB, GPIB, and RS-232 enable remote control and data acquisition in development, qualification, and compliance test

environments across avionics, telecommunications, and consumer electronics sectors. Technical Specifications AC Output Maximum power: 375 VA Voltage range: 0 to 300 Vrms Current (RMS): 3.25 A; (Peak): 40 A Frequency range: DC; 45 Hz to 1 kHz DC Output Maximum power: 285 W Voltage range: ± 425 V Current (RMS): 2.5 A; (Instantaneous): 40 A Measurement Capabilities RMS, DC, and AC + DC voltage and current Peak voltage and current Real, apparent, and reactive power Harmonic analysis through the 50th harmonic (amplitude and phase) Total Harmonic Distortion (THD) Triggered digitized waveform acquisition Physical & Environmental Dimensions: $574.7 \times 425.5 \times 132.6$ mm Weight: 33 kg Input: 104–127 VAC (6811C/120 model) Operating altitude: up to 2000 m Max relative humidity: 85% Safety Class: IEC I (requires earth ground connection) Key Features Overvoltage and overpower protection Arbitrary waveform synthesis for power line simulation and distortion testing Multi-domain analysis in a single instrument Standard LXI-LAN, USB, and GPIB interfaces plus RS-232 Typical Applications Product development and validation, power supply and battery charger testing, power quality assessment, harmonic compliance verification, industrial equipment qualification. Compatibility & Integration LXI-LAN, USB, GPIB, RS-232.

Features & description

From manufacturer datasheet

Built-in power analyzer measurements

LAN USB and GPIB connectivity Arbitrary waveforms and harmonic analysis class Crest factor support for peaky loads Technical Specifications Instrument Type: AC power source analyzer Series Family: Keysight 6800C Number of Phases: 1 Rated Power: 375 VA RMS Voltage: 300 V RMS Current: 3.25 A Peak Current: 40 A Crest Factor: 12 Load Power Factor: 0 to 1 DC Power: 285 W DC Voltage: plus or minus 425 V DC Current: 2.5 A Output Frequency: DC; 45 Hz to 1 kHz CV Ripple Noise: minus 60 dB relative to full scale 20 kHz to 10 MHz Maximum THD 50 60 Hz: 0.25 percent Programming Accuracy RMS Voltage 45 to 100 Hz: 0.15 percent plus 0.3 V Remote Interfaces: LXI LAN USB GPIB AC Input Options: 100/120/208/230 Vac class 47 to 63 Hz Measurement Set: VIpwr VA watts PF harmonics Operating Temperature Specs: 0 to 40 C unless noted Dual Power Analyzer Option: Option 020 class available on 6800C family Arbitrary Waveforms: supported for AC product stimulus Built In Analyzer: replaces separate DMM scope power analyzer class instruments Notes From Keysight 6800C Series AC Power Source/Analyzers data sheet 6811C column.

6811C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	AC power source analyzer
Series Family	Keysight 6800C
Number of Phases	1
Rated Power	375 VA
RMS Voltage	300 V
RMS Current	3.25 A
Peak Current	40 A
Crest Factor	12
Load Power Factor	0 to 1
DC Power	285 W
DC Voltage	plus or minus 425 V
DC Current	2.5 A
Output Frequency	DC; 45 Hz to 1 kHz
CV Ripple Noise	minus 60 dB relative to full scale 20 kHz to 10 MHz
Maximum THD 50 60 Hz	0.25 percent
Programming Accuracy RMS Voltage 45 to 100 Hz	0.15 percent plus 0.3 V
Remote Interfaces	LXI LAN USB GPIB
AC Input Options	100/120/208/230 Vac class 47 to 63 Hz
Measurement Set	VIpowers VA watts PF harmonics
Operating Temperature Specs	0 to 40 C unless noted
Dual Power Analyzer Option	Option 020 class available on 6800C family
Arbitrary Waveforms	supported for AC product stimulus
Built In Analyzer	replaces separate DMM scope power analyzer class instruments
Operating temperature	Specs: 0 to 40 C unless noted

6811C Specifications

PARAMETER	VALUE
Agilent Keysight 6811C AC Power Source Analyzer 375 VA	Overview
Applications	AC product test, avionics line simulation, and regulatory AC source applications at 375 VA.
Technical Specifications	Instrument Type: AC power source analyzer
Notes	From Keysight 6800C Series AC Power Source/Analyzers data sheet 6811C column.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Specs: 0 to 40 C unless noted
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Dual Power Analyzer Option	Option 020 class available on 6800C family
Arbitrary Waveforms	supported for AC product stimulus
Built In Analyzer	replaces separate DMM scope power analyzer class instruments Notes From Keysight 6800C Series AC Power Source/Analyzers data sheet 6811C column.

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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Notes

From Keysight 6800C Series AC Power Source/Analyzers data sheet 6811C column.

Ordering Information

OPTION	DESCRIPTION
Option 020	class available on 6800C family

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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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.