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**Data Sheet**
August 13, 2026

HP / AGILENT

# HP / Agilent 6812C Performance AC Power Source, 750 VA, 300 V, 6.5 A

Keysight 6812C AC Power Source / Analyzer 750 VA 300 Vrms The Keysight 6812C is the 750 VA single-phase member of the 6800C AC source/analyzer family. It generates 0 to 300 Vrms (DC; 45 Hz to 1 kHz) with 6.5 A rms and 40 A peak, plus DC to plus/minus 425 V at 5.0 A (575 W). A built-in 16-bit analyzer measures rms/peakVand I, real/apparent/reactive power, and harmonics to the 50th. LXI-LAN, USB, and GPIB are standard on C-series units. Worldwide line simulation and immunity; avionics 400 Hz; brownout/dropout transients; precompliance harmonics and flicker; UPS and adapter efficiency with Option 020 dual analyzer. The Keysight 6812C is the 750 VA single-phase member of the 6800C AC source/analyzer family. It generates 0 to 300 Vrms (DC; 45 Hz to 1 kHz) with 6.5 A rms and 40 A peak, plus DC to plus/minus 425 V at 5.0 A (575 W). A built-in 16-bit analyzer measures rms/peakVand I, real/apparent/reactive power, and harmonics to the 50th. LXI-LAN, USB, and GPIB are standard on C-series units. Worldwide line simulation and immunity; avionics 400 Hz; brownout/dropout transients; precompliance harmonics and flicker; UPS and adapter efficiency with Option 020 dual analyzer.

| MODEL | CALIBRATION |
|---|---|
| HP / Agilent 6812C | Available on request |
| **CONDITION** | **STATUS** |
| Used | In stock |
| **RFQ / SKU** | **LISTING** |
| 6812C | https://aumictechlabs.com/products/6812c-2/ |

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The HP/Agilent 6812C is a single-phase AC power source and integrated power analyzer delivering 750 VA maximum output. It generates stable, programmable AC waveforms from DC to 1 kHz, with output voltage to 300 Vrms and peak current to 40 A. The instrument combines arbitrary waveform generation, harmonic synthesis, and transient simulation with real-time power measurement - eliminating the need for separate test equipment. A built-in 16-bit power analyzer measures voltage, current, power (real, apparent, reactive), harmonics to the 50th order, THD, and triggered waveform capture. Store up to twelve user-defined waveforms in non-volatile memory. Optional second power analyzer enables dual-node efficiency testing. Technical Specifications Output Power: 750 VA AC; 575 W DC AC Voltage: 0–300 Vrms AC Current: 6.5 A RMS, 40 A peak DC Output: ±425 V, 5 A RMS Frequency: DC; 45 Hz to 1 kHz Line Regulation: 0.1%; Load Regulation: 0.5% THD: ≤0.25% at 50/60 Hz (1% worst case, 45 Hz–1 kHz) Voltage Ripple: −60 dB Measurement Resolution: 16-bit Harmonic Analysis: Amplitude and phase, DC to 50th harmonic Key Features Arbitrary waveform generator with user-defined and stored waveforms Harmonic and transient disturbance simulation DC offset capability overlaid on AC output Integrated power analyzer: RMS, peak, real/apparent/reactive power, THD, harmonics Overcurrent, overvoltage, overpower, and overtemperature protection Output disconnect relays and remote TTL inhibit LAN/LXI Core, USB, and GPIB interfaces Typical Applications Power supply and converter compliance testing under normal and distorted line conditions Harmonic injection and transient response validation Input/output efficiency measurement (with optional dual analyzer) Device behavior characterization across frequency and waveform variants Compatibility & Integration Standard connectivity: LAN/LXI Core, USB, GPIB. Optional RS-232 support. Single-phase output rated for 104–127 VAC input.

## Features & description

From manufacturer datasheet

### Features

• Combined AC source, arbitrary-waveform generator, and power analyzer • Sine, square, clipped sine, and user waveforms; programmable output impedance • Option 020 dual power analyzer with precision shunt • Option 026 26 V 0.1 A auxiliary reference (6812C/6813C) • Protection: overcurrent, overvoltage, overpower, overtemperature, output disconnect, remote inhibit • C-series LAN/USB/GPIB versus earlier 6812A GPIB-only hardware

## 6812C Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Model** | 6812C |
| **Manufacturer** | Keysight Technologies (Agilent) |
| **Instrument Type** | AC power source / analyzer |
| **Family** | 6800C |
| **Alias** | Keysight 6812C; Agilent 6812C |
| **Number Of Phases** | 1 |
| **Output Power** | 750 VA maximum |
| **RMS Voltage** | 300 V |
| **RMS Current** | 6.5 A |
| **Peak Current** | 40 A repetitive and non-repetitive |
| **Crest Factor** | 6 |
| **Load Power Factor** | 0 to 1 |
| **DC Power** | 575 W |
| **DC Voltage** | plus/minus 425 V |
| **DC Current** | 5.0 A |
| **Output Frequency Range** | DC; 45 Hz to 1 kHz |
| **CV Ripple And Noise** | -60 dB relative to full scale (20 kHz to 10 MHz) |
| **Line Regulation** | 0.1 percent of full scale |
| **Load Regulation** | 0.5 percent of full scale |
| **THD At 50/60 Hz** | 0.25 percent maximum |
| **THD Worst Case 45 Hz to 1 kHz** | 1 percent |
| **Programming RMS Voltage 45 to 100 Hz** | 0.15 percent plus 0.3 V at 25 plus/minus 5 C |
| **Programming RMS Voltage 100 to 500 Hz** | 0.5 percent plus 0.3 V |
| **Programming RMS Voltage 500 to 1000 Hz** | 1 percent plus 0.3 V |
| **Programming DC Voltage** | 0.1 percent plus 0.5 V |

| PARAMETER | VALUE |
| --- | --- |
| **Programming Frequency** | 0.01 percent plus 10 uHz |
| **Measurement RMS Voltage 45 to 100 Hz** | 0.03 percent plus 100 mV |
| **Measurement DC Voltage** | 0.05 percent plus 150 mV |
| **Measurement RMS Current High** | 0.05 percent plus 10 mA (45 to 100 Hz) |
| **Measurement RMS Current Low** | 0.05 percent plus 1.5 mA |
| **Measurement Watts High** | 0.1 percent plus 0.3 W plus 12 mW/V |
| **Measurement Frequency** | 0.01 percent plus 0.01 Hz |
| **Average Programming Resolution RMS Voltage** | 125 mV |
| **Average Programming Resolution DC Voltage** | 250 mV |
| **Average Programming Resolution RMS Current** | 4 mA |
| **Output Frequency Resolution** | 10 uHz |
| **Programmable Resistance** | 0 to 1 ohm |
| **Programmable Inductance** | 20 uH to 1 mH |
| **Remote Sense** | up to 1 Vrms per load lead |
| **Isolation To Ground** | 300 Vrms / 425 Vdc |
| **Net Weight** | 29.1 kg (64.2 lb) |
| **Size** | 425.5 mmWx 132.6 mmHx 574.7 mmDInput Power Maximum: 2500 VA / 1400 W |
| **Input Frequency** | 47 to 63 Hz |
| **Related 375 VA** | 6811C 3.25 A rms |
| **Related 1750 VA** | 6813C 13 A rms 80 A peak |

# 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 |
|---|---|
| **Model** | 6812C |
| **Manufacturer** | Keysight Technologies (Agilent) |
| **Instrument Type** | AC power source / analyzer |
| **Family** | 6800C |
| **Alias** | Keysight 6812C; Agilent 6812C |
| **Number Of Phases** | 1 |
| **Output Power** | 750 VA maximum |
| **RMS Voltage** | 300 V |
| **RMS Current** | 6.5 A |
| **Peak Current** | 40 A repetitive and non-repetitive |
| **Crest Factor** | 6 |
| **Load Power Factor** | 0 to 1 |
| **DC Power** | 575 W |
| **DC Voltage** | plus/minus 425 V |
| **DC Current** | 5.0 A |
| **Output Frequency Range** | DC; 45 Hz to 1 kHz |
| **CV Ripple And Noise** | -60 dB relative to full scale (20 kHz to 10 MHz) |
| **Line Regulation** | 0.1 percent of full scale |
| **Load Regulation** | 0.5 percent of full scale |
| **THD At 50/60 Hz** | 0.25 percent maximum |

THD Worst Case 45 Hz to 1 kHz: 1 percent

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Programming RMS Voltage 45 to 100 Hz** | 0.15 percent plus 0.3 V at 25 plus/minus 5 C |
| **Programming RMS Voltage 100 to 500 Hz** | 0.5 percent plus 0.3 V |

| PARAMETER | VALUE |
|---|---|
| **Programming RMS Voltage 500 to 1000 Hz** | 1 percent plus 0.3 V |
| **Programming DC Voltage** | 0.1 percent plus 0.5 V |
| **Programming Frequency** | 0.01 percent plus 10 uHz |
| **Measurement RMS Voltage 45 to 100 Hz** | 0.03 percent plus 100 mV |
| **Measurement DC Voltage** | 0.05 percent plus 150 mV |
| **Measurement RMS Current High** | 0.05 percent plus 10 mA (45 to 100 Hz) |
| **Measurement RMS Current Low** | 0.05 percent plus 1.5 mA |
| **Measurement Watts High** | 0.1 percent plus 0.3 W plus 12 mW/V |
| **Measurement Frequency** | 0.01 percent plus 0.01 Hz |
| **Average Programming Resolution RMS Voltage** | 125 mV |
| **Average Programming Resolution DC Voltage** | 250 mV |
| **Average Programming Resolution RMS Current** | 4 mA |
| **Output Frequency Resolution** | 10 uHz |
| **Programmable Resistance** | 0 to 1 ohm |
| **Programmable Inductance** | 20 uH to 1 mH |
| **Remote Sense** | up to 1 Vrms per load lead |
| **Isolation To Ground** | 300 Vrms / 425 Vdc |
| **Net Weight** | 29.1 kg (64.2 lb) |
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Notes
Specs from Keysight 6800C Series data sheet 5992-2370EN 6812C column. Product may be operated between DC and 45 Hz with derating. ConfirmCversus earlier 6812A hardware (LAN/USB on C). Option 020 dual analyzer and Option 026 auxiliary output are ordering options.

## Ordering Information

| OPTION | DESCRIPTION |
|---|---|
| **Option 020** | dual analyzer. |
| **Option 026** | 26 V 0.1 A auxiliary reference (6812C/6813C) |

### 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

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