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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 6813C Performance AC Power Source, 1750 VA, 300 V, 13 A

Keysight 6813C AC Power Source / Analyzer 1750 VA 300 Vrms The Keysight 6813C is the 1750 VA single-phase 6800C AC source/analyzer, 0 to 300 Vrms at 13 A rms and 80 A peak, with DC to plus/minus 425 V at 10.0 A (1350 W). Frequency range is DC; 45 Hz to 1 kHz (Option 019 raises VA to 2000 VA and limits frequency to 100 Hz). Built-in harmonic analysis to the 50th harmonic, programmable impedance, and LXI-LAN/USB/GPIB support avionics, UPS, and line-immunity test. High-VA single-phase AC simulation; 400 Hz avionics; UPS transfer and efficiency with Option 020; brownout and harmonic precompliance; DC offset plus AC ring-signal generation. The Keysight 6813C is the 1750 VA single-phase 6800C AC source/analyzer, 0 to 300 Vrms at 13 A rms and 80 A peak, with DC to plus/minus 425 V at 10.0 A (1350 W). Frequency range is DC; 45 Hz to 1 kHz (Option 019 raises VA to 2000 VA and limits frequency to 100 Hz). Built-in harmonic analysis to the 50th harmonic, programmable impedance, and LXI-LAN/USB/GPIB support avionics, UPS, and line-immunity test. High-VA single-phase AC simulation; 400 Hz avionics; UPS transfer and efficiency with Option 020; brownout and harmonic precompliance; DC offset plus AC ring-signal generation.



MODEL

HP / Agilent 6813C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6813C

LISTING

<https://aumictechlabs.com/products/6813c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6813C is a AC power source and analyzer that combines power amplification, arbitrary waveform generation, and integrated power analysis in a single instrument. It generates standard and distorted AC waveforms, transient disturbances, and DC power - either standalone or as an offset to AC output. Built-in power analyzer functions eliminate the need for separate multimeters, oscilloscopes, and harmonic analyzers, making it ideal for power supply testing, UPS evaluation, avionics ATE, and power factor corrected equipment characterization. Technical Specifications

Output Power Maximum output power: 1750 VA DC power capacity: 1350 W

Voltage Output AC voltage range: 0 to 300 Vrms DC voltage range: +/-425 V

Current Output AC current (RMS): 13 A AC current (peak): 80 A DC current (RMS): 10 A

Frequency Operating range: 45 Hz to 1000 Hz (sine wave with resistive load) DC to 45 Hz operation available with specified deratings Maximum frequency: 1000 Hz

Waveform Generation Arbitrary waveform generator with preprogrammed standard waveforms Normal and distorted power waveform simulation Transient generation for AC line disturbance simulation DC offset capability on AC output

Power Analyzer Capabilities RMS, DC, and AC + DC voltage and current measurements Peak voltage and current detection Real, apparent, and reactive power analysis Harmonic analysis up to the 50th harmonic with amplitude and phase data Total Harmonic Distortion (THD) calculation Triggered digitized waveform acquisition Dual-node measurement via Option 020

Protection & Safety Overcurrent, overvoltage, overpower, and overtemperature protection Output disconnect relays and remote TTL inhibit capability Safety Class 1 with protective earth terminal

Interfaces & Connectivity LAN/LXI Core, USB, GPIB, RS-232

Environmental Indoor use in installation category II, pollution degree 2 Maximum relative humidity: 95% Operating altitude: up to 2000 m

Features & description

From manufacturer datasheet

Features

- Highest VA in the 6811C/6812C/6813C trio (1750 VA) • Option 019: 2000 VA with frequency reduced to 100 Hz (6813C only) • Option 020 dual power analyzer; Option 026 26 V 0.1 A auxiliary • 80 A peak versus 40 A on 6811C/6812C • Sine, square, clipped sine, user waveforms; RTCA DO-160 oriented transients • C-series LAN/USB/GPIB

6813C Characteristics / Specifications

PARAMETER	VALUE
Model	6813C
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	AC power source / analyzer
Family	6800C
Alias	Keysight 6813C; Agilent 6813C
Number Of Phases	1
Output Power	1750 VA maximum
RMS Voltage	300 V
RMS Current	13 A
Peak Current	80 A repetitive and non-repetitive
Crest Factor	6
Load Power Factor	0 to 1
DC Power	1350 W
DC Voltage	plus/minus 425 V
DC Current	10.0 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 Frequency	0.01 percent plus 10 uHz

PARAMETER	VALUE
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
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
Harmonic Current Low 2 to	0.03 percent plus 1 mA plus 0.2 percent per kHz
Average Programming Resolution RMS Voltage	125 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	30.1 kg (66.4 lb)
Shipping Weight	34.59 kg (76.26 lb)
Size	425.5 mmWx 132.6 mmHx 574.7 mmDInput Current At 200/208 Vac: 22 A rms (low line)
Input Current At 230 Vac	20 A rms
Input Power Maximum	3800 VA / 2600 W
Input Frequency	47 to 63 Hz
Related 750 VA	6812C 6.5 A rms 40 A peak
PredecessorAModel	6813A 1750 VA 13 A rms same VA class

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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DC Voltage	plus/minus 425 V
DC Current	10.0 A
Output Frequency Range	DC; 45 Hz to 1 kHz
Option 019 Power: 2000 VA with frequency reduced to 100 Hz	
Specifications	
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CV Ripple And Noise	-60 dB relative to full scale (20 kHz to 10 MHz)
Line Regulation	0.1 percent of full scale
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Specifications	

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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
Harmonic Current Low 2 to 49	0.03 percent plus 1 mA plus 0.2 percent per kHz
Average Programming Resolution RMS Voltage	125 mV
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Output Frequency Resolution	10 uHz
Programmable Resistance	0 to 1 ohm
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Notes

Specs from Keysight 6800C Series data sheet 5992-2370EN 6813C column. Option 019 and the 200/208 Vac input range are 6813C-specific. ConfirmCversus 6813A (GPIB-era) hardware before quoting LAN/USB.

Ordering Information

OPTION	DESCRIPTION
Option 019	raises VA to 2000 VA and limits frequency to 100 Hz). Built-in harmonic analysis to the 50th harmonic, programmable impedance, and LXI-LAN/USB/GPIB support avio
Option 020	dual power analyzer; Option 026 26 V 0.1 A auxiliary

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.