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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 6813A AC power source/analyzer 1750 VA

HP / Agilent 6813A AC Power Source / Analyzer 1750 VA 300 Vrms The HP/Agilent 6813A is the 1750 VA single-phase 6800A AC source/analyzer, 0 to 300 Vrms at 13 A rms, 5.25 inch panel height. It combines a power amplifier and arbitrary-waveform generator with a built-in power analyzer (rms, peak, watts, VA, harmonics). DC output is supported on 6811A/6812A/6813A. This A-revision uses the GPIB-era 6800 interface; the later 6813C adds LXI-LAN and USB with the same VA class. Single-phase AC line simulation at 1750 VA; 400 Hz avionics; brownout and dropout transients; harmonic and power measurements without a separate analyzer. The HP/Agilent 6813A is the 1750 VA single-phase 6800A AC source/analyzer, 0 to 300 Vrms at 13 A rms, 5.25 inch panel height. It combines a power amplifier and arbitrary-waveform generator with a built-in power analyzer (rms, peak, watts, VA, harmonics). DC output is supported on 6811A/6812A/6813A. This A-revision uses the GPIB-era 6800 interface; the later 6813C adds LXI-LAN and USB with the same VA class. Single-phase AC line simulation at 1750 VA; 400 Hz avionics; brownout and dropout transients; harmonic and power measurements without a separate analyzer.



MODEL

HP / Agilent 6813A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6813A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6813A is a single-phase AC power source and analyzer delivering 1750 VA of output power. This benchtop instrument combines programmable AC source capability with integrated power analysis, enabling simultaneous generation and measurement of AC waveforms in a single device. It supports sine, square, clipped sine, and user-defined arbitrary waveforms with full transient generation and power line disturbance simulation.

Technical Specifications

Output Power & Voltage/Current Output power: 1750 VA Maximum AC voltage: 300 V RMS Maximum AC current: 13 A RMS Repetitive and non-repetitive peak current: 80 A Crest factor: 6 DC voltage range: ± 425 V Maximum DC current: 10 A DC power output: 1350 W Output frequency range: DC; 45 Hz to 1 kHz Output impedance: Programmable

Waveform Generation Standard waveforms: Sine, square, clipped sine, and user-defined Clipped sine distortion: 0% to 43% Transient modes: Step and pulse for single and continuous changes Power line disturbances: Sag, surge, dropout, clipping, event programming Voltage and frequency slew control supported

Measurement & Analysis Parameters: V_{rms} , I_{rms} , I_{peak} , frequency, phase, VA, watts, power factor, THD Harmonic analysis to 50th harmonic (output ≤ 250 Hz) Waveform digitization: 16-bit resolution for voltage and current Real, reactive, and apparent power measurements

Environmental & Physical AC line input: 220 V to 240 V / 60 Hz / 1 Ph Installation category: II Pollution degree: 2 Maximum operating altitude: 2000 m Maximum humidity: 95% Form factor: Benchtop

Key Features Integrated source and analyzer eliminates dual-instrument test setups Harmonic content analysis for compliance and distortion testing Arbitrary waveform generation for complex test scenarios 16-bit waveform capture with full THD measurement Real-time power quality assessment

Typical Applications Power supply evaluation and validation Regulatory compliance testing (UPS, inverters, motor drives) AC line disturbance simulation and transient testing Harmonic content and power factor characterization Complex AC waveform generation and measurement

Compatibility & Integration HP-IB and RS-232 interfaces SCPI programming support Front-panel graphical user interface

Features & description

From manufacturer datasheet

Features

- 1750 VA / 300 Vrms / 13 A rms A-series source
- DC generation on 6811A/6812A/6813A
- Built-in analyzer: rms, peak, real/apparent power, harmonics
- Programmable voltage, frequency, current limit, and waveform
- 5.25 inch rack height versus 10.5 inch 6814B/6834B
- Electronic calibration; GPIB

6813A Characteristics / Specifications

PARAMETER	VALUE
Model	6813A
Manufacturer	Hewlett Packard / Agilent
Instrument Type	AC power source / analyzer
Family	6800A
Alias	HP 6813A; Agilent 6813A
Number Of Phases	1
Output Power	1750 VA
RMS Voltage	300 V
Maximum RMS Current	13 A
Panel Height	5.25 inch
DC Generation	yes (6811A 6812A 6813A)
Related 6811A Power	375 VA; 3.25 A rms
Related 6812A Power	750 VA; 6.2 A rms (A-series table)
Related 6814B Power	3000 VA; 10.5 inch panel
Measurement RMS CurrentA Series	0.05 percent plus 15 mA class (6812A/6813A column)
Measurement Power VAA Series	0.1 percent plus 3.5 VA class (6811A/6812A/6813A)
Measurement WattsA Series	0.1 percent plus 0.3 W
Input Voltage Range High	191 to 254 Vac
Maximum Input Current At 200/208 Vac	22 A rms
Maximum Input Current At 230 Vac	20 A rms
Input Power Maximum	3800 VA / 2600 W
Input Frequency	47 to 63 HzC Series Successor RMS Current: 13 A (6813C)
C Series Successor Peak Current	80 AC Series Successor DC Power: 1350 WC Series Successor DC Voltage: plus/minus 425 VC Series Successor DC Current: 10.0 AC Series Frequency Range: DC; 45 Hz to 1 kHzC Series THD 50/60 Hz: 0.25 percentC Series Programming V 45 to 100 Hz: 0.15 percent plus 0.3 V

PARAMETER	VALUE
Remote InterfaceASeries	GPIB
Waveforms	programmable AC including DC offset capability onAmodels
Analyzer Functions	rms, peak, watts, VA, harmonic content
Calibration	electronic
Size Class	5.25 inch panel 6800A single-phase
RelatedCModel	6813C 1750 VA with LAN USB GPIB

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
A-series VA, rms current, panel height, and AC-input rows are from the HP 6800A family data sheet (6813A column). Dense programming/measurement numbers in Keysight 5992-2370EN are published for 6813C; they are listed as C-series successor reference only. Confirm A versus C serial prefix before quoting LAN/USB or 80 A peak.

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 ·
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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.