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Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

HP / AGILENT

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

Size: 425.5 mmWx 132.6 mmHx 574.7 mmD Input Current At 200/208 Vac: 22 A rms (low line)
Related 750 VA: 6812B 6.5 A rms 40 A peak Successor C Model: 6813C same VA class with LAN/USB Specs from Agilent 6800B Series data sheet 6813B column. Option 019 and Opt 200 line ranges are 6813B-specific. Confirm B versus later 6813C hardware before quoting LAN/USB interfaces. Related 750 VA: 6812B 6.5 A rms 40 A peak Successor C Model: 6813C same VA class with LAN/USB Specs from Agilent 6800B Series data sheet 6813B column. Option 019 and Opt 200 line ranges are 6813B-specific. Confirm B versus later 6813C hardware before quoting LAN/USB interfaces.



MODEL

HP / Agilent 6813B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6813B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 6813B is a AC power source and integrated power analyzer designed for demanding test and evaluation of power supplies, UPS systems, avionics equipment, and power factor corrected devices. This instrument generates and measures AC and DC power across a wide range of voltage and current levels, simulates normal and distorted waveforms, and performs comprehensive harmonic analysis - all within a single integrated platform. The 16-bit precision power analyzer measures RMS voltage and current, real/apparent/reactive power, total

harmonic distortion, and harmonic content up to the 50th harmonic. It accepts analog programming via dedicated terminals, GPIB (with optional interface card), and RS-232 communication, with a graphical user interface for non-programmed operation. Technical Specifications AC Output: Power: 1750 VA Voltage (rms): 0–300 V Current (rms): 0–13 A Maximum Peak Current: 80 A Frequency Range: DC + 45 Hz to 1 kHz Crest Factor: 6 Voltage Accuracy (45–100 Hz): 0.15% + 0.3 V Voltage Accuracy (>100–500 Hz): 0.5% + 0.3 V Voltage Accuracy (>500–1000 Hz): 1% + 0.3 V Frequency Accuracy: 0.01% + 10 μ Hz DC Output: Power: 1350 W Voltage: $\pm$ 425 V (AC) / 425 V (DC) Current: 10.0 A Voltage Accuracy: 0.1% + 0.5 V Key Features Arbitrary waveform generation with support for AC + DC combined signals Triggered acquisition for digitized voltage and current waveforms Peak voltage and current measurement Harmonic analysis with amplitude and phase up to the 50th harmonic Total harmonic distortion measurement for voltage and current Safety Class 1 with protective earth terminal Operating altitude to 2000 meters; humidity to 95% (non-condensing) Typical Applications Power supply and UPS testing Avionics automatic test equipment and RTCA DO-160 compliance testing (400 Hz nominal) Power factor correction device evaluation Efficiency measurements and static/dynamic testing Compatibility & Integration Optional GPIB interface card (6813B-82350B PCI GPIB Interface Card) for remote control; RS-232 and analog programming terminals standard.

Features & description

From manufacturer datasheet

Features

- Highest VA in the 6811B/6812B/6813B trio (1750 VA) • Option 019: 2000 VA with frequency reduced to 100 Hz (6813B only) • Option 020 dual power analyzer; Option 026 26 V 0.1 A auxiliary • 80 A peak versus 40 A on 6811B/6812B • GPIB SCPI; VXI plug and play drivers • Predecessor to 6813C LAN/USB generation

6813B Characteristics / Specifications

PARAMETER	VALUE
Model	6813B
Manufacturer	Agilent / Hewlett Packard (Keysight lineage)
Instrument Type	AC power source / analyzer
Family	6800B
Alias	HP 6813B; Agilent 6813B; Keysight 6813B
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	32.7 kg (72 lb)
Shipping Weight	36.4 kg (80 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	6812B 6.5 A rms 40 A peak
SuccessorCModel	6813C same VA class with LAN/USB

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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PARAMETER	VALUE
Model	6813B
Manufacturer	Agilent / Hewlett Packard (Keysight lineage)
Instrument Type	AC power source / analyzer
Family	6800B
Alias	HP 6813B; Agilent 6813B; Keysight 6813B
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
Option 019 Power: 2000 VA with frequency reduced to 100 Hz	
Specifications	
PARAMETER	VALUE
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
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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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Notes

Specs from Agilent 6800B Series data sheet 6813B column. Option 019 and Opt 200 line ranges are 6813B-specific. ConfirmBversus later 6813C hardware before quoting LAN/USB interfaces.

Ordering Information

OPTION	DESCRIPTION
Option 019	raises VA to 2000 VA and limits frequency to 100 Hz. Built-in arbitrary waveforms, harmonic analysis to the 50th harmonic, programmable impedance, and GPIB supp
Option 020	dual analyzer; brownout and harmonic precompliance; DC offset plus AC ring-signal generation.

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.