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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6812B DC Power Supply

HP Agilent 6812B AC Power Source Analyzer 750 VA The Agilent/Keysight 6812B is a single-phase AC power source/analyzer in the 6800B series. OEM datasheet maximum ratings are 750 VA, 300 Vrms, and 6.5 Arms with built-in arbitrary waveform generation and precision power measurements. AC line simulation including brownouts and dropouts, avionics 400 Hz testing, UPS and power-product efficiency work, and GPIB automated AC/DC source-measure sequences. Combined AC source amplifier and arbitrary waveform generator The Agilent/Keysight 6812B is a single-phase AC power source/analyzer in the 6800B series. OEM datasheet maximum ratings are 750 VA, 300 Vrms, and 6.5 Arms with built-in arbitrary waveform generation and precision power measurements. AC line simulation including brownouts and dropouts, avionics 400 Hz testing, UPS and power-product efficiency work, and GPIB automated AC/DC source-measure sequences. Combined AC source amplifier and arbitrary waveform generator Built in 16 bit precision power analyzer measurements



MODEL

**Agilent / Keysight
6812B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6812B

LISTING

<https://aumictechlabs.com/products/6812b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6812B is a dual-function AC power source and DC supply that integrates arbitrary waveform generation, power amplification, and multi-domain measurement analysis into a single instrument. It delivers up to 750 VA of AC power with precise voltage and current output, plus independent DC capability rated at 575 W. The 6812B consolidates power sourcing with built-

in power analysis - measuring RMS/DC/peak voltage and current, real/apparent/reactive power, THD, and harmonic content up to the 50th harmonic - eliminating the need for external instrumentation in demanding test environments.

Technical Specifications

AC Output Maximum Power: 750 VA RMS Voltage: 300 V | RMS Current: 6.5 A Peak Current: 40 A | Crest Factor: 6

Frequency Range: DC, 45 Hz to 1000 Hz (with deratings below 45 Hz; measurement extension to 4.5 Hz possible at 250 μ s digitization rate)

Voltage Accuracy: 0.15% + 0.3 V (45–100 Hz) | 0.5% + 0.3 V (100–500 Hz) | 1% + 0.3 V (500–1000 Hz)

Line Regulation: 0.1% full scale | **Load Regulation:** 0.5% full scale

THD: 0.25% at 50/60 Hz | 1% worst case (45 Hz to 1 kHz)

DC Output Power: 575 W Voltage: ± 425 V | Current: 5.0 A

Measurement Suite RMS, DC, and AC+DC voltage/current; peak voltage and current Real, apparent, and reactive power Total harmonic distortion and harmonic analysis (amplitude and phase to 50th harmonic) Triggered digitized waveform acquisition Frequency content limited to 4 kHz to prevent aliasing

Key Features Dual power analyzer option (020/022) adds independent rear-panel measurement inputs with full isolation to 300 Vac / ± 425 Vdc Synchronized measurement capture between source output and external power analyzer input External shunt support for custom current measurement ranges UPS-specific measurements: transfer time, peak voltage, phase-locked loop performance Frequency modulation capability on AC output GPIB and RS-232 control interfaces

Physical Specifications

Dimensions: 425.5 mm W $\times$ 88.1 mm H $\times$ 396 mm D

Operating Humidity: Maximum 95% relative humidity

Typical Applications Product development and validation, quality assurance, uninterruptible power supply (UPS) testing, regulatory compliance verification, and harmonic analysis in power electronics testing.

6812B Characteristics / Specifications

PARAMETER	VALUE
Number of Phases	1
Maximum Output Power	750 VA
Maximum RMS Voltage	300 V
Maximum RMS Current	6.5 A
Peak Current Repetitive and Nonrepetitive	40 A
Crest Factor	6
Load Power Factor Capability	0 to 1
DC Power	575 W
DC Voltage	plus or minus 425 V
DC Current	5.0 A
Output Frequency Range	DC; 45 Hz to 1 kHz
Constant Voltage Ripple and Noise	minus 60 dB relative to full scale (20 kHz to 10 MHz)
Line Regulation	0.1% of full scale
Load Regulation	0.5% of full scale
Maximum THD At 50 or 60 Hz	0.25%
Maximum THD Worst Case 45 Hz to 1 kHz	1%
Programming Accuracy RMS Voltage 45 to 100 Hz	0.15% + 0.3 V at 25 C plus or minus 5 C
Programming Accuracy RMS Voltage Above 100 to 500 Hz	0.5% + 0.3 V
Programming Accuracy RMS Voltage Above 500 to 1000 Hz	1% + 0.3 V
Programming Accuracy DC Voltage	0.1% + 0.5 V
Programming Accuracy Frequency	0.01% + 10 uHz
Measurement Accuracy RMS Voltage 45 to 100 Hz	0.03% + 100 mV

PARAMETER	VALUE
Measurement Accuracy DC Voltage	0.05% + 150 mV
Measurement Accuracy RMS Current High Range	0.05% + 10 mA
Measurement Accuracy RMS Current Low Range	0.05% + 1.5 mA
Programming Resolution RMS Voltage	125 mV
Programming Resolution Frequency	10 uHz
Programmable Output Resistance	0 to 1 Ohm
Isolation to Ground	300 Vrms / 425 Vdc
Size	425.5 mmWx 132.6 mmHx 574.7 mmDNet Weight: 28.2 kg (62 lb)
Input Power Maximum	2500 VA / 1400 W

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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Number of Phases	1
Maximum Output Power	750 VA
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Line Regulation	0.1% of full scale
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Maximum THD At 50 or 60 Hz	0.25%
Maximum THD Worst Case 45 Hz to 1 kHz: 1% Programming Accuracy RMS Voltage 45 to 100 Hz: 0.15% + 0.3 V at 25 C plus or minus 5 C Programming Accuracy RMS Voltage Above 100 to 500 Hz: 0.5% + 0.3 V Programming Accuracy RMS Voltage Above 500 to 1000 Hz: 1% + 0.3 V Programming Accuracy DC Voltage: 0.1% + 0.5 V Programming Accuracy Frequency: 0.01% + 10 uHz Measurement Accuracy RMS Voltage 45 to 100 Hz: 0.03% + 100 mV	
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PARAMETER	VALUE
Measurement Accuracy DC Voltage	0.05% + 150 mV
Measurement Accuracy RMS Current High Range	0.05% + 10 mA
Measurement Accuracy RMS Current Low Range	0.05% + 1.5 mA

PARAMETER	VALUE
Programming Resolution RMS Voltage	125 mV
Programming Resolution Frequency	10 uHz
Programmable Output Resistance	0 to 1 Ohm
Isolation to Ground	300 Vrms / 425 Vdc
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Notes
Numeric rows from Keysight 6800B Series AC Power Source/Analyzers data sheet column for 6812B.

Ordering Information

OPTION	DESCRIPTION
Option 020	SCPI GPIB control with GUI support

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.