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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6814B DC Power Supply

Agilent Keysight 6814B AC Power Source 3000 VA The Agilent/Keysight 6814B is a high-power AC power source in the 6814/6834/6843 family. OEM specifications rate 3000 VA with 150/300 V ranges. High-power AC product test, IEC immunity source applications, and three-phase simulation where supported. Built-in measurements of VI power and harmonics The Agilent/Keysight 6814B is a high-power AC power source in the 6814/6834/6843 family. OEM specifications rate 3000 VA with 150/300 V ranges. High-power AC product test, IEC immunity source applications, and three-phase simulation where supported. Built-in measurements of VI power and harmonics Single or three-phase configurations by model



METRICTEST.COM

MODEL

**Agilent / Keysight
6814B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6814B

LISTING

<https://aumictechlabs.com/products/6814b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 6814B is a single-phase AC power source and analyzer delivering 3000 VA of output power across a 150 V (20 A) low range and 300 V (10 A) high range. Operating from DC through 5 kHz, it generates arbitrary waveforms including sine, square, and user-defined signals, with integrated capability to simulate power line disturbances such as sag, surge, dropout, and clipping events. The instrument provides comprehensive power analysis including RMS voltage and current, real/reactive/apparent power, power factor, phase measurement, and harmonic analysis up to the 50th harmonic. Built-in harmonic distortion measurement and event programming enable complex power quality simulation. Voltage programming accuracy varies by

frequency: 0.15% + 0.3 V at 45–100 Hz, 0.5% + 0.3 V at >100–500 Hz, and 1% + 0.3 V at >500–1000 Hz. Current programming accuracy is 1.2% + 50 mA. Voltage measurement resolution reaches 10 mV. Output voltage ripple and noise measure -60 dB relative to full scale, with 0.1% line regulation and 0.5% load regulation. Maximum THD specification is 0.25% at 50/60 Hz, rising to 1% worst-case at 45 Hz. Protection includes over-current, over-voltage, over-power, over-temperature, and RI/DFI safeguards with built-in output isolation relays. The instrument supports GPIB and RS-232 interfaces with SCPI programming, VXI plug&play drivers, and USB connectivity, enabling integration into automated test systems. Typical applications span R&D, manufacturing quality control, power supply validation, UPS testing, avionics ATE, and regulatory compliance verification.

Features & description

From manufacturer datasheet

Built-in measurements of V_I power and harmonics

GPIB system control High crest factor current capability Single or three-phase configurations by model
Technical Specifications Instrument Type: AC power source Series Family: Agilent 6814B 6834B 6843A
Number of Phases: 1 Rated Power: 3000 VA RMS Voltage Ranges: 150 V low; 300 V high RMS Current
Low Range: 20 A RMS Current High Range: 10 A Repetitive Peak Current Low Range: 80 A Repetitive
Peak Current High Range: 40 A Crest Factor: 4 Output Frequency Range: 45 Hz to 5 kHz on 6814B; 45
Hz to 1 kHz on 6834B class CV Ripple Noise: minus 60 dB 20 kHz to 10 MHz Measurement Accuracy
RMS Current: 0.1 percent plus 25 to 50 mA by model Measurement Accuracy Frequency: 0.01 percent
plus 0.01 Hz Measurement Accuracy Power VA: 0.15 percent plus VA offset by model AC Input: 180 to
235 Vac or 360 to 440 Vac three-phase class 47 to 63 Hz Output Isolation: stated in user guide Remote
Interface: GPIB VA Versus Voltage: full VA only near full-scale voltage of selected range Measurement
Power Factor Accuracy: 0.01 Built In Analyzer: VIVA watts PF harmonics class Application Class: high
power AC source analyzer Notes Keysight 6814B user guide / AC solutions table.

6814B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	AC power source
Series Family	Agilent 6814B 6834B 6843A
Number of Phases	1
Rated Power	3000 VA
RMS Voltage Ranges	150 V low; 300 V high
RMS Current Low Range	20 A
RMS Current High Range	10 A
Repetitive Peak Current Low Range	80 A
Repetitive Peak Current High Range	40 A
Crest Factor	4
Output Frequency Range	45 Hz to 5 kHz on 6814B; 45 Hz to 1 kHz on 6834B class
CV Ripple Noise	minus 60 dB 20 kHz to 10 MHz
Measurement Accuracy RMS Current	0.1 percent plus 25 to 50 mA by model
Measurement Accuracy Frequency	0.01 percent plus 0.01 Hz
Measurement Accuracy Power VA	0.15 percent plus VA offset by model
AC Input	180 to 235 Vac or 360 to 440 Vac three-phase class 47 to 63 Hz
Output Isolation	stated in user guide
Remote Interface	GPIB
VA Versus Voltage	full VA only near full-scale voltage of selected range
Measurement Power Factor Accuracy	0.01
Built In Analyzer	VIVA watts PF harmonics class
Application Class	high power AC source analyzer

6814B Specifications

PARAMETER	VALUE
Agilent Keysight 6814B AC Power Source 3000 VA	Overview
Key Features	150 V and 300 V full-scale ranges
Technical Specifications	Instrument Type: AC power source
Notes	Keysight 6814B user guide / AC solutions table.

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 rate 3000 VA with 150/300 V ranges.	
Applications	
High-power AC product test, IEC immunity source applications, and three-phase simulation where supported.	
Key Features	
150 V and 300 V full-scale ranges	
Built-in measurements ofVIpower and harmonics	
GPIB system control	
High crest factor current capability	
Single or three-phase configurations by model	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Instrument Type	AC power source
Series Family	Agilent 6814B 6834B 6843A
Number of Phases	1
Rated Power	3000 VA
RMS Voltage Ranges	150 V low; 300 V high
RMS Current Low Range	20 A
RMS Current High Range	10 A
Repetitive Peak Current Low Range	80 A
Repetitive Peak Current High Range	40 A
Crest Factor	4
Output Frequency Range	45 Hz to 5 kHz on 6814B; 45 Hz to 1 kHz on 6834B class
CV Ripple Noise	minus 60 dB 20 kHz to 10 MHz
Measurement Accuracy RMS Current	0.1 percent plus 25 to 50 mA by model
Measurement Accuracy Frequency	0.01 percent plus 0.01 Hz
Measurement Accuracy Power VA	0.15 percent plus VA offset by model
AC Input	180 to 235 Vac or 360 to 440 Vac three-phase class 47 to 63 Hz
Output Isolation	stated in user guide
Remote Interface	GPIB
VA Versus Voltage	full VA only near full-scale voltage of selected range
Measurement Power Factor Accuracy	0.01
Built In Analyzer	VIVA watts PF harmonics class

PARAMETER

VALUE

Application Class

high power AC source analyzer

Notes

Keysight 6814B user guide / AC solutions table.

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.