

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6812B

The Keysight 6812B is a versatile 750 VA AC power source and analyzer designed for applications such as power supply testing, UPS testing, avionics ATE, and power factor correction testing. This compact, single-phase instrument combines the capabilities of an AC source, DC source, arbitrary waveform generator, and a sophisticated power analyzer into a single 4U chassis, offering comprehensive power testing and generation functions with SCPI programming interfaces.

SPECIFICATIONS

Physical

Dimensions (W×H×D)	425.5 mm x 132.6 mm x 524.5 mm mm
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Output AC Specifications

Maximum AC Output Power	750 VA
AC Output Voltage Ranges	135 Vrms / 270 Vrms
Maximum RMS Current (135 V Range)	6.5 A
Maximum RMS Current (270 V Range)	3.25 A
Maximum Peak Current (135 V Range)	40 A
Maximum Peak Current (270 V Range)	20 A
Frequency Range	45 Hz to 1 kHz

Output DC Specifications

Maximum DC Power	575 W
DC Voltage Ranges	190 V / 380 V
Maximum DC Current (190 V Range)	5.0 A
Maximum DC Current (380 V Range)	2.5 A

Measurement Capabilities

Power Factor Measurement Range	0.00 to 1.00
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Transient Generation

Transient Types Supported	Step, Pulse, List (arbitrary)
Transient List Max Steps	100

System Interfaces and Control

GPIO Interface	Built-in, IEEE-488.2 compliant
Programming Language	SCPI (Standard Commands for Programmable Instruments)
Optional Power Analyzer Channel	Option 020 (adds a second independent power analyzer for dual-node measurements)

Output Specifications

Number of Phases	1 (single phase)
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Harmonic Measurement

Maximum Harmonic Order Measured	50
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Maintenance

Recommended Calibration Interval	1 year
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Waveform Generation

Supported Waveform Shapes	Sine, Square, Clipped-Sine (CSINE), Arbitrary
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Power Input

Input Phase	Single phase
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TECHNOLOGY

AC Power Source / Power Analyzer

APPLICATIONS

Power supply testing, UPS testing, avionics ATE, and power factor corrected device testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.