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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6912H

Output On Off Phase: 0.0 to 360.0 degrees, 0.1 degree resolution, plus or minus 1 degree at less than or equal to 1 kHz Input Frequency: 50 to 60 Hz nominal, 45 to 65 Hz variation Dc Voltage Measurement Accuracy: 0.05 percent plus 150 mV From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6912H kVA, current, frequency ceiling, input VA, mass, and size are the model row. L models are 1 Hz to 550 Hz on three-phase output; H models extend to 5 kHz with de-rating notes on the sheet. Input Frequency: 50 to 60 Hz nominal, 45 to 65 Hz variation Dc Voltage Measurement Accuracy: 0.05 percent plus 150 mV From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6912H kVA, current, frequency ceiling, input VA, mass, and size are the model row. L models are 1 Hz to 550 Hz on three-phase output; H models extend to 5 kHz with de-rating notes on the sheet.



MODEL

**Agilent / Keysight
AC6912H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6912H

LISTING

<https://aumictechlabs.com/products/ac6912h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight AC6912H is a 12 kVA three-phase AC power source engineered for high-demand testing in avionics, power electronics, and industrial systems. It delivers precise AC, DC, or combined AC+DC output across configurable single, two, and three-wire topologies. With maximum AC voltage of 320 Vrms, DC voltage to 452 V, and frequency capability to 5 kHz, the

AC6912H supports both steady-state and transient verification. The instrument incorporates a built-in harmonic analyzer, custom waveform generation, and power line disturbance simulation - critical for pre-compliance validation. A 5-inch color LCD display and programmable output sequencing enable flexible test automation. LAN (LXI core) and USB connectivity, with optional GPIB and analog/digital I/O modules, integrate into existing test architectures. Multiple protection schemes - overvoltage, overcurrent, overpower, and overtemperature - safeguard connected devices. Two input configurations support 380–480 V or 180–235 V mains.

Technical Specifications

Power Capacity: 12 kVA (single-phase or three-phase) AC Output: 1 V to 320 Vrms across dual voltage ranges DC Output: 1.4 V to 452 VDC across dual voltage ranges Frequency Range: Up to 5 kHz (L models: 1 Hz to 550 Hz three-phase) Maximum RMS Current: 120 A / 60 A (single-phase); 40 A / 20 A (1P3W or three-phase) Output Modes: AC, DC, or AC+DC superposition Frequency Accuracy: ± 0.002 kHz at 1 kHz reference ($\pm 0.01\% + 0.005\%/^{\circ}\text{C} \times 2^{\circ}\text{C}$) Phase Angle Setting: Within $\pm 0.5^{\circ}$ at 60 Hz; within $\pm 0.8^{\circ}$ at 400 Hz Input Voltage: 380–480 V (AC6912H/400) or 180–235 V (AC6912H/200)

Key Features

- Built-in harmonic analyzer for power quality assessment
- Custom waveform generation capability
- Power line disturbance simulation
- Programmable output sequencing and soft start/stop
- Adjustable positive and negative peak current limits
- Maximum RMS current limiting
- Programmable output inhibit
- 5-inch color LCD display with .csv data export

Typical Applications

- RTCA DO-160 pre-compliance testing
- MIL-STD-704 compliance validation
- IEC 61000-4-11 power quality standards testing
- Avionics equipment verification
- Power electronics research and design validation

Compatibility & Integration

- LAN (LXI core) and USB interfaces standard
- Optional GPIB interface
- Optional digital I/O module (AC69DIGU) and analog I/O module (AC69ALGU)
- PathWave BenchVue AC Source Pre-Compliance Test software integration

Features & description

From manufacturer datasheet

Built-in harmonic analyzer to 50th order

Power line disturbance and sequencer Five-inch color LCD all-phase metering Parallel operation on 6 kVA and larger models Technical Specifications Model: AC6912H Instrument Type: Three-phase AC DC power source Ac Voltage Ranges: 160 V / 320 V (setting 0.0 to 161.0 V / 0.0 to 322.0 V) Voltage Setting Resolution: 0.1 V Voltage Setting Accuracy 45 To 500 Hz: plus or minus (0.15 percent plus 0.3 V) Voltage Setting Accuracy 500 Hz To 5 KHz: plus or minus (1 percent plus 0.3 V) / plus or minus (1 percent plus 0.6 V) Maximum Rms Current 1P: 120 A / 60 A Maximum Rms Current 1P3W Or 3P: 40 A / 20 A Power Capacity 1P Or 3P: 12 kVA Power Capacity 1P3W: 8 kVA Load Power Factor: 0 to 1 leading or lagging Frequency Range: 1 Hz to 5 kHz (5 kHz minus 3 dB; current de-rate below 40 Hz, 70 percent at 1 Hz) Frequency Resolution: 0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz), 1 Hz (1 kHz to 5 kHz) Frequency Accuracy: plus or minus 0.01 percent, temperature coefficient plus or minus 0.005 percent perCPhase Modes: 1P, 1P3W, 3P4W switchable Dc Voltage Ranges: plus or minus 226 V / plus or minus 452 V (setting 0 to plus or minus 227.5 V / 0 to plus or minus 455 V) Dc Voltage Accuracy: plus or minus (0.15 percent plus 0.3 V)

AC6912H Characteristics / Specifications

PARAMETER	VALUE
Model	AC6912H
Instrument Type	Three-phase AC DC power source
Ac Voltage Ranges	160 V / 320 V (setting 0.0 to 161.0 V / 0.0 to 322.0 V)
Voltage Setting Resolution	0.1 V
Voltage Setting Accuracy 45 To 500 Hz	plus or minus (0.15 percent plus 0.3 V)
Voltage Setting Accuracy 500 Hz To 5 Khz	plus or minus (1 percent plus 0.3 V) / plus or minus (1 percent plus 0.6 V)
Maximum Rms Current 1P	120 A / 60 A
Maximum Rms Current 1P3W Or 3P	40 A / 20 A
Power Capacity 1P Or 3P	12 kVA
Power Capacity 1P3W	8 kVA
Load Power Factor	0 to 1 leading or lagging
Frequency Range	1 Hz to 5 kHz (5 kHz minus 3 dB; current de-rate below 40 Hz, 70 percent at 1 Hz)
Frequency Resolution	0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz), 1 Hz (1 kHz to 5 kHz)
Frequency Accuracy	plus or minus 0.01 percent, temperature coefficient plus or minus 0.005 percent perCPhase Modes: 1P, 1P3W, 3P4W switchable
Dc Voltage Ranges	plus or minus 226 V / plus or minus 452 V (setting 0 to plus or minus 227.5 V / 0 to plus or minus 455 V)
Dc Voltage Accuracy	plus or minus (0.15 percent plus 0.3 V)
Dc Power Capacity	12 kW
Max Peak Current	4 times maximum output current
Inrush Current Capacity	1.4 times maximum output current for 0.5 s
Line Regulation	plus or minus 0.1 percent
Thd	0.3 percent (less than or equal to 100 Hz), 0.5 percent (less than or equal to 330 Hz), 1.5 percent per kHz (less than or equal to 5 kHz)

PARAMETER	VALUE
Harmonic Analysis	rms voltage and current and phase angle, 5th to 50th, fundamental 10 Hz to 1 kHz
Output On Off Phase	0.0 to 360.0 degrees, 0.1 degree resolution, plus or minus 1 degree at less than or equal to 1 kHz
Apparent Input Power	15.6 kVA or less
Power Factor Typical	0.95 typical
Efficiency Typical	85 percent typical
Hold Up Time	10 ms
Input Frequency	50 to 60 Hz nominal, 45 to 65 Hz variation
Net Mass	71 kg (200 V) / 72 kg (400 V)
Net Dimensions	430 × 389 × 562 mm
Dc Voltage Measurement Accuracy	0.05 percent plus 150 mV
Ac Voltage Measurement Resolution	0.1 V
Transient Response Fast	40 us
Interfaces	LXI LAN, USB, GPIB
Manufacturer	Keysight Agilent

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
Maximum Rms Current 1P	120 A / 60 A
Maximum Rms Current 1P3W Or 3P	40 A / 20 A
Power Capacity 1P Or 3P	12 kVA
Power Capacity 1P3W	8 kVA
Load Power Factor	0 to 1 leading or lagging
Frequency Range	1 Hz to 5 kHz (5 kHz minus 3 dB; current de-rate below 40 Hz, 70 percent at 1 Hz)
Frequency Resolution	0.01 Hz (1.00 to 99.99 Hz), 0.1 Hz (100.0 to 999.9 Hz), 1 Hz (1 kHz to 5 kHz)
Frequency Accuracy	plus or minus 0.01 percent, temperature coefficient plus or minus 0.005 percent per C
Phase Modes	1P, 1P3W, 3P4W switchable
Dc Voltage Ranges	plus or minus 226 V / plus or minus 452 V (setting 0 to plus or minus 227.5 V / 0 to plus or minus 455 V)
Dc Voltage Accuracy	plus or minus (0.15 percent plus 0.3 V)
Dc Power Capacity	12 kW
Max Peak Current	4 times maximum output current
Inrush Current Capacity	1.4 times maximum output current for 0.5 s
Line Regulation	plus or minus 0.1 percent
Thd	0.3 percent (less than or equal to 100 Hz), 0.5 percent (less than or equal to 330 Hz), 1.5 percent per kHz (less than or equal to 5 kHz)
Harmonic Analysis	rms voltage and current and phase angle, 5th to 50th, fundamental 10 Hz to 1 kHz
Output On Off Phase	0.0 to 360.0 degrees, 0.1 degree resolution, plus or minus 1 degree at less than or equal to 1 kHz
Apparent Input Power	15.6 kVA or less
Power Factor Typical	0.95 typical
Efficiency Typical	85 percent typical
Hold Up Time	10 ms

PARAMETER	VALUE
Input Frequency	50 to 60 Hz nominal, 45 to 65 Hz variation
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Voltage Setting Resolution	0.1 V
Voltage Setting Accuracy 45 To 500 Hz	plus or minus (0.15 percent plus 0.3 V)

Voltage Setting Accuracy 500 Hz To 5 Khz: plus or minus (1 percent plus 0.3 V) / plus or minus (1 percent plus 0.6 V)

Specifications

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Maximum Rms Current 1P3W Or 3P	40 A / 20 A
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Dc Voltage Ranges	plus or minus 226 V / plus or minus 452 V (setting 0 to plus or minus 227.5 V / 0 to plus or minus 455 V)
Dc Voltage Accuracy	plus or minus (0.15 percent plus 0.3 V)
Dc Power Capacity	12 kW

PARAMETER	VALUE
Max Peak Current	4 times maximum output current
Inrush Current Capacity	1.4 times maximum output current for 0.5 s
Line Regulation	plus or minus 0.1 percent
Thd	0.3 percent (less than or equal to 100 Hz), 0.5 percent (less than or equal to 330 Hz), 1.5 percent per kHz (less than or equal to 5 kHz)
Harmonic Analysis	rms voltage and current and phase angle, 5th to 50th, fundamental 10 Hz to 1 kHz
Output On Off Phase	0.0 to 360.0 degrees, 0.1 degree resolution, plus or minus 1 degree at less than or equal to 1 kHz
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Efficiency Typical	85 percent typical
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Notes

From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6912H kVA, current, frequency ceiling, input VA, mass, and size are the model row. L models are 1 Hz to 550 Hz on three-phase output; H models extend to 5 kHz with de-rating notes on the sheet.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.