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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6912L

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). AC6912L 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). AC6912L 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
AC6912L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6912L

LISTING

<https://aumictechlabs.com/products/ac6912l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AC6912L is a 12 kVA three-phase AC power source that merges power generation with integrated multimeter, harmonic analyzer, and power analyzer functionality. Designed for rigorous electrical system testing, it outputs up to 320 Vrms AC (452 V DC maximum) across configurable single-phase, single-phase three-wire, or three-phase four-wire topologies. The

instrument operates from 1 Hz to 550 Hz, supporting AC, DC, and AC+DC modes simultaneously. It generates custom waveforms, simulates power line disturbances, and measures voltage, current, and power with $\pm(0.15\% + 0.3 \text{ V})$ accuracy across the 45 Hz to 500 Hz band. Built-in harmonic analysis, output sequencing, and programmable soft start/stop and output inhibit functions enable compliance testing for avionics (RTCA DO-160, MIL-STD-704) and general component validation including relays and transformers.

Technical Specifications

Output Power: 12 kVA
Output Voltage (Max AC RMS): 320 Vrms
Output Voltage (Max DC): 452 V
Output Voltage Setting Range: 0.0–161.0 V (low), 0.0–322.0 V (high)
Voltage Resolution: 0.1 V
Voltage Accuracy (45 Hz–500 Hz): $\pm(0.15\% + 0.3 \text{ V})$
Frequency Range: 1 Hz to 550 Hz
Frequency Variation (AC Mode): $\pm 1\%$ (40 Hz to 5 kHz, referenced at 55 Hz)
Max RMS Current: 120 A / 60 A (1-phase); 40 A / 20 A (1-phase 3-wire or 3-phase)
Power Factor: 0.95
Input Voltage: 180–235 V and 380–480 V configurations available
Input Frequency: 50/60 Hz
Harmonic Content: 5 Hz to 1 MHz components in DC mode

Key Features

- Waveform generation with custom AC profiles
- Power line disturbance simulation
- Integrated harmonic analysis (Fourier decomposition to 1 MHz)
- Output sequencing for multi-step test protocols
- Programmable soft start/stop and output inhibit
- Over/under-voltage protection
- 5-inch LCD color display

Typical Applications

- Avionics equipment validation (DO-160, MIL-STD-704)
- Power interruption simulation and recovery testing
- Harmonic and voltage fluctuation analysis
- Relay and transformer functional verification
- Electronic system stress and compliance evaluation

Compatibility & Integration

LAN: LXI Core
USB: TMC and CDC (Virtual COM)
GPIB: Optional

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: AC6912L 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 550 Hz (L three-phase); familyHextends to 5 kHz 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)

AC6912L Characteristics / Specifications

PARAMETER	VALUE
Model	AC6912L
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 550 Hz (L three-phase); familyH extends to 5 kHz
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 CPhase 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

PARAMETER	VALUE
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	
Specifications	
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 550 Hz (L three-phase); family H extends to 5 kHz
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
Input Frequency	50 to 60 Hz nominal, 45 to 65 Hz variation

PARAMETER	VALUE
Net Mass	71 kg (200 V) / 72 kg (400 V)
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Dc Voltage Measurement Accuracy	0.05 percent plus 150 mV
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Transient Response Fast	40 us
Interfaces	LXI LAN, USB, GPIB
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Specifications

PARAMETER	VALUE
Model	AC6912L
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)

Specifications

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 550 Hz (L three-phase); familyHextends to 5 kHz
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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
Max Peak Current	4 times maximum output current

PARAMETER	VALUE
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
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Notes

From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6912L 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.