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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6918H

Input Frequency: 50 to 60 Hz nominal, 45 to 65 Hz variation Net Mass: 104 kg (200 V) / 106 kg (400 V) Dc Voltage Measurement Accuracy: 0.05 percent plus 150 mV From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6918H 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. Net Mass: 104 kg (200 V) / 106 kg (400 V) Dc Voltage Measurement Accuracy: 0.05 percent plus 150 mV From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6918H 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
AC6918H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6918H

LISTING

<https://aumictechlabs.com/products/ac6918h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AC6918H is an 18 kVA three-phase AC power source and integrated analyzer for demanding test environments. It combines AC and DC sourcing with multimeter, harmonic analyzer, and power analyzer functions in a single instrument. The system generates programmable AC, DC, and AC+DC waveforms up to 5 kHz, supports single-, two-, and three-wire output configurations, and delivers up to 320 Vrms with 60 A per phase maximum

current. Built-in power line disturbance simulation, harmonic analysis to the 50th harmonic, waveform generation, and soft start/stop protection make it suitable for avionics qualification, electric vehicle charger development, and aerospace system testing.

Technical Specifications

Output Power: 18 kVA (1P or 3P) Maximum AC Voltage: 320 Vrms Maximum DC Voltage: 452 V
Frequency Range: DC to 5 kHz output; 50/60 Hz input Maximum RMS Current: 60 A per phase (3P), up to 90 A (1P), 180 A (1P single load) Input Voltage: 200–230 V or 380–480 V (selectable configuration) Output Modes: AC, DC, AC+DC Output Connections: Single, two, and three-wire
Constant Voltage/Current: Yes Programmable: Yes

Key Features Integrated multimeter, harmonic analyzer, and power analyzer Precision measurement of AC, DC, and AC+DC voltage and current Peak voltage/current, real/apparent/reactive power, power factor, and crest factor measurement Harmonic analysis of voltage and current waveforms (amplitude and phase) up to the 50th harmonic Total Harmonic Distortion (THD) measurement Built-in power line disturbance simulation and output sequencing Over/under-voltage and current protection Output inhibit programming and soft start/stop function LAN (LXI core) and USB connectivity; optional GPIB, digital, and analog interfaces

Typical Applications Avionics equipment testing at 400 Hz, 800 Hz, and up to 5,000 Hz per RTCA DO-160 and MIL-STD-704 Electric vehicle onboard charger (OBC) development and validation Aircraft instrumentation and ATE station qualification Power interruption and supply condition simulation

Compatibility & Integration The AC6918H/400 variant is configured for 380–480 V / 5-wire input. Standard interfaces include LAN and USB; optional GPIB, digital control, and analog control modules are available.

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: AC6918H 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: 180 A / 90 A Maximum Rms Current 1P3W Or 3P: 60 A / 30 A Power Capacity 1P Or 3P: 18 kVA Power Capacity 1P3W: 12 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)

AC6918H Characteristics / Specifications

PARAMETER	VALUE
Model	AC6918H
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	180 A / 90 A
Maximum Rms Current 1P3W Or 3P	60 A / 30 A
Power Capacity 1P Or 3P	18 kVA
Power Capacity 1P3W	12 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	18 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	23.4 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	104 kg (200 V) / 106 kg (400 V)
Net Dimensions	430 × 563 × 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	180 A / 90 A
Maximum Rms Current 1P3W Or 3P	60 A / 30 A
Power Capacity 1P Or 3P	18 kVA
Power Capacity 1P3W	12 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	18 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	23.4 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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Specifications

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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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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	18 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
Apparent Input Power	23.4 kVA or less
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Notes

From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6918H 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

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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.