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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AC6918L

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). AC6918L 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). AC6918L 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
AC6918L**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AC6918L

LISTING

<https://aumictechlabs.com/products/ac6918l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight AC6918L is an 18 kVA three-phase AC power source engineered for demanding avionics and specialty testing applications. This instrument integrates power generation with built-in measurement and analysis capabilities - functioning simultaneously as a multimeter, harmonic analyzer, and power analyzer. It operates in AC, DC, and AC plus DC modes across single-phase, single-phase three-wire, and three-phase four-wire configurations, delivering up to 320 Vrms AC

and 452 V DC with per-phase currents reaching 180 A in low-voltage single-phase mode. The AC6918L generates arbitrary waveforms, simulates power line disturbances, and captures precision measurements including voltage, current, power (real, apparent, reactive), crest factor, power factor, and harmonic content to the 50th harmonic with amplitude and phase data. Its 5-inch color LCD displays all three-phase measurements simultaneously. Frequency capability extends to 550 Hz, supporting both 50 Hz and 60 Hz input references.

Technical Specifications

Power Capacity: 18 kVA (single-phase or three-phase) **AC Output:** 0–320 Vrms; 180 A / 90 A (1P); 60 A / 30 A (1P3W or 3P); up to 180 A single-phase at low voltage range **DC Output:** 0–452 V

Frequency Range: Up to 550 Hz; 50/60 Hz input **Measurement Suite:** AC/DC voltage and current; peak values; real, apparent, and reactive power; crest factor; power factor; harmonic analysis (amplitude and phase to 50th harmonic); total harmonic distortion (THD) **Output Modes:** Programmable waveform generation; power line disturbance simulation; output sequencing; soft start/stop; output disconnect relays **Protection:** Over/undervoltage; overcurrent; over-temperature; output inhibit programming **Display:** 5-inch LCD color; simultaneous three-phase measurements **Connectivity:** LXI (Core) LAN; USB; optional GPIB and analog control; digital control standard **Operation:** Single-phase, single-phase three-wire, or three-phase four-wire; parallel operation supported

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: AC6918L 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 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)

AC6918L Characteristics / Specifications

PARAMETER	VALUE
Model	AC6918L
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 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)
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

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	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	
Specifications	
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 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	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
Input Frequency	50 to 60 Hz nominal, 45 to 65 Hz variation

PARAMETER	VALUE
Net Mass	104 kg (200 V) / 106 kg (400 V)
Net Dimensions	430 x 563 x 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

Specifications

PARAMETER	VALUE
Model	AC6918L
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	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
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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

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	23.4 kVA or less
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Efficiency Typical	85 percent typical
Hold Up Time	10 ms
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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

Notes

From Keysight AC6900 Series Power Sources datasheet (complete three-phase AC power solution). AC6918L 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.