AC6900 Series Power Sources

A complete 3-phase AC power solution

Introduction

Keysight's AC6900 Series AC power sources provide a complete AC and DC power solution by combining the capabilities of a multimeter, harmonic analyzer, and power analyzer in one instrument. In a compact form factor, you can easily produce DC power, either alone or as a DC offset to an AC waveform.





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Easily Achieve Your Test Goals

The increasing demand for testing avionics devices such as air traffic management systems, sensors, and crewless aircraft systems demands a sophisticated AC and DC power solution. Test system designers constantly look for ways to optimize their avionic electronic systems.

A compact, high-performance AC power source with DC capability is ideal for achieving this goal. An avionics test software suite will help to accelerate pre-compliance testing that meets commercial and military standards.

Since your product must operate in the real world of unpredictable AC power, you must design and verify its operation under a wide range of AC power inputs. For example, brownouts, dropouts, sags, and other irregularities are uncommon in many industries today.

You need to test using the compliance tests of the country where you plan to sell the product to ensure it meets their regulatory requirements for line voltages and frequencies.

The AC6900 Series AC power sources have the features you need to easily achieve your test goals in either a research and development environment or on the manufacturing test floor.

The five-inch LCD color display shows the main measurements for all phases simultaneously. The intuitive interface minimizes your team's learning curve while making measurements. The multiple IO connectivity – LXI-LAN, USB, and GPIB provides flexible synchronization.

Feature

Output

- Single-phase, single-phase three-wire, or three-phase four-wire
- AC, DC, or AC plus DC mode
- Maximum AC voltage at 320 Vrms
- Maximum DC voltage at 452 V
- Frequency up to 5 kHz
- · Parallel operation

Built-in tests

- Power line disturbance
- Sequencing
- Harmonic analysis
- Built-in waveform generation

Protection

- Over and Undervoltage, including current protection
- Output inhibit

Programming

- Soft start / stop function
- · Analog and digital control
- LAN eXtensions, USB, and GPIB





Simplify Test Setups with Accurate Measurement Capabilities

AC6900 Series AC power sources have extensive measurement capabilities that typically require complex measurement instruments encompassing a multimeter, harmonic analyzer, and power analyzer. This solution is suitable for testing equipment in the avionics industry that operates at nominally 400 Hz, 800 Hz, or up to 5,000 Hz to meet RTCA DO-160 and MIL-STD-704 standards. These two standards include both AC and DC immunity tests.

You will experience the following precision measurements:

- AC, DC, AC plus DC voltage, and current
- · Peak voltage and current
- · Real, apparent, and reactive power; crest factor and power factor
- Harmonic analysis of voltage and current waveforms providing amplitude and phase up to the 50th harmonic
- Total harmonic distortion (THD)

Using the measurement capabilities of a Keysight AC6900 Series 3-phase AC power source simplifies your test setups, reduces test complexity, and helps you output accurate data quickly.

Extensive Protection to Prevent Load Damage

In addition to overcurrent, overvoltage, overpower, and overtemperature protection, the AC6900 Series 3-phase AC power source offers output disconnect relays and remote inhibit capability to quickly disable the output of the AC power source via a transistor-transistor logic (TTL) signal to protect the DUT.

Intuitive and Easy-to-Use Front Panel Interface and Flexible IO Connectivity

The five-inch LCD color display shows the primary measurements of all phases simultaneously. The interface is intuitive, minimizing the learning curve, enhancing the user experience and optimizing operation. The multiple IO connectivity – LXI-LAN, USB and GPIB provides the greatest flexibility.



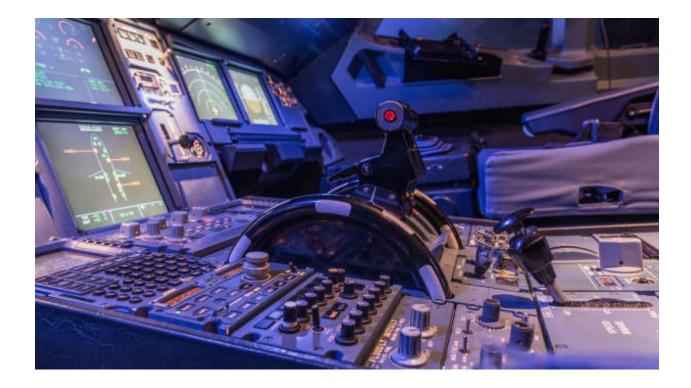
Application information

Avionics

- Test instrumentation and automated test equipment (ATE) test stations
- Simulate power interruption on cockpit electronics
- Evaluate the window heating system
- · Perform pre-compliance test

Specialty testing

- Measure current harmonic content and create custom AC power waveforms; combined AC and DC signals
- Test current harmonics and voltage fluctuations for pre-compliance requirements
- Ensure relays, transformers, power components, and fire alarms are operating correctly
- Test power products such as AC / DC adapters, AC / DC power supplies, and uninterruptible power supplies
- Check AC motors and electronic controllers





Measurements at a Glance with Large Color **Display**

Meter view - default RMT ← 👬 OFF Phase 2 OFF Phase 3 OFF Phase 1 0.0 Vrms 0.0 Vrms 0.0 Vrms 0.02 Arms 0.02 Arms 0.0 W 0.03 Arms 0.0W 0.0W 0.0 VAC Line to Neutral 50.00 Hz 0.0 V₁₂ 0.0 WTOTAL 0.0 V23 0.0 VATOTAL LOW Range ACDC Coupling 0.0 V₃₁ 0.000 PFTOTAL **≜**Lock

Utilities

Figure 1. View all 3 phases at a glance

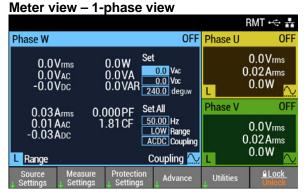


Figure 2. View more information on a selected phase

Built-in powerline disturbance simulation Advance Functions\Simulation Power Line Abnormality Simulation Setup T1 time 0.1000 s T5 time 0.100 s T2 time 0.000 s T3 time 0.1000 s T3 voltage 0.0 V T4 time No. of loop 9999 0.000 s Run SIM Back

Figure 3. Simulate power outages, surges, and sag for environmental testing on your devices

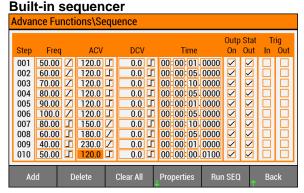


Figure 4. Easily generate output voltage and frequency transients over time for stress tests

Built-in harmonic analysis Advance Functions\Harmonic Analysis Curr THD (Phase U) 100 % **Output Type** THD (Phase V) 100 % Harmonic Type All THD (Phase W) 100 % Orde ØU ded ØV deg ØW de ØV Arms W Arms -0.04 0.0 0.0 0.0 -0.040.0 0.0 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.0 0.00 0.00 0.0 0.00 0.0 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00

Figure 5. Analyze current or voltage harmonics up to 50th order

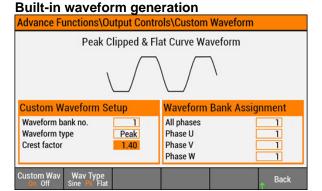


Figure 6. Generate sine wave, peak clipped, and flat curve waveforms for cockpit electronics characterization



Operate Remotely

Keysight's Pathwave BenchVue software for the PC enables you to operate the AC6900 Series remotely to:

- Track and record your AC outputs to understand the impact of events related to the power draw.
- Create and execute a series of test steps using the sequencer function.
- Simulate power line abnormalities using the power simulation function.
- Facilitate harmonics measurement and analysis, providing the amplitude and phase of voltage and current waveforms in table and histogram chart.
- Capture and display power measurement as a waveform on the PC using the data log function.
- Export data quickly to a .csv file for further analysis.

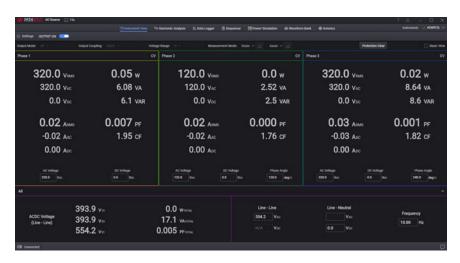


Figure 7. PathWave BenchVue AC source control software (BV0026B)

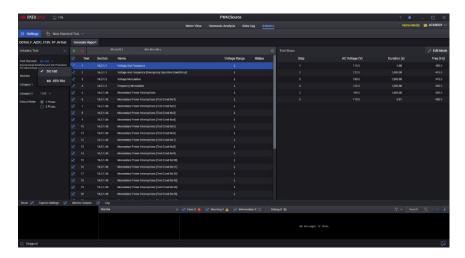


Figure 8. PathWave BenchVue AC source avionics standard test software (BV0028B)



Specifications

Programming accuracy (at 23 °C ± 5 °C)	AC6903H 5 kHz AC6903L 550 Hz	AC6906H 5 kHz AC6906L 550 Hz	AC6912H 5 kHz AC6912L 550 Hz	AC6918H 5 kHz AC6918L 550 Hz	
Output AC1					
AC voltage ² (Low range/High range)	160 V / 320 V				
Setting range (Low range/High range)	0.0 ~ 161.0 V / 0.0 ~ 3	22.0 V			
Resolution	0.1 V				
Accuracy ^{3 4} (Low range/High range)	± (0.15% + 0.3 V) (45 Hz ± (1% + 0.3 V) / ± (1% +	,			
Max rms current 5					
1P	30 A / 15 A	60 A / 30 A	120 A / 60 A	180 A / 90 A	
1P3W or 3P	10 A / 5 A	20 A / 10 A	40 A / 20 A	60 A / 30 A	
Power capacity					
1P or 3P	3 kVA	6 kVA	12 kVA	18 kVA	
1P3W	2 kVA	4 kVA	8 kVA	12 kVA	
Load power factor	0 ~ 1 (leading or lagging)				
Frequency					
Range 6	1 Hz ~ 5 kHz (5 kHz -3 d	B, < 40 Hz power de-rating is re	equired)		
Resolution	0.01Hz (1.00 Hz ~ 99.99	Hz), 0.1Hz (100.0 Hz ~ 999.9	Hz), 1 Hz (1 kHz ~ 5 kHz)		
Accuracy 7	± 0.01%, temperature co	efficient: ± 0.005%/°C			
Phase		1P (single-phase), 1P3W (single-phase three wire), 3P4W (three-phase four wire) switchable			
Resolution	0.1° (waveform bank 0 a	nd 1 Hz ~ 500 Hz), 1° (500 Hz	~ 4 kHz), 2° (> 4 kHz)		
Accuracy8	Within 120°± (0.4° + fo×	0.9°); fo = output frequency (kF	Hz)		
Output DC ¹					
DC voltage 9 (Low range/High range)	± 226 V / ± 452 V	± 226 V / ± 452 V			
Setting range (Low range/High range)	0 to ± 227.5 V / 0 to ± 4	0 to ± 227.5 V / 0 to ± 455 V			
Resolution	0.1 V				
Accuracy	± (0.15% + 0.3V)	± (0.15% + 0.3V)			
Max current 10	30 A / 15 A	60 A / 30 A	120 A / 60 A	180 A / 90 A	
Power capacity	3 kW	6 kW	12 kW	18 kW	

- Combined with AC and DC output, the peak voltage must be between -455 V to 455 V (High range) or -227.5 V to 227.5 V (Low range).
- 2. The specified guaranteed voltage range is 1 V to 160 V and 2 V to 320 V.
- 3. At no load, the response is in FAST or MID, using the compensation function.
- 4. At the phase angle of 120° for each phase for line voltage.
- 5. The maximum rms current is associated with the output voltage range. When the output voltage is between 100 VAC and 160 VAC or 200 VAC and 320 VAC, the output voltage reduces the output current. When the output frequency is between 1 Hz and 40 Hz, the output frequency reduces the output current. The output current is 70% at 1 Hz.
- 6. L models the frequency is 1 Hz to 550 Hz for three-phase output.
- 7. Temperature coefficient applies when the environmental temperature is beyond 23 °C ± 5 °C. Example: At temperature 30 °C and setting frequency 1 kHz, frequency accuracy = 1 kH±0.002 kHz. (±0.01%+0.005%/°Cx2 °C=±0.02%).
- 8. Example: Performance of angle conversion at a given frequency within 120° ±0.5° at 60 Hz output, within 120° ±0.8° at 400 Hz
- Guaranteed voltage range is 1.4 VDC to 226 VDC; 2.8 VDC to 452 VDC.
- 10. The maximum rms current is associated with the output voltage range. When the output voltage is between 100 VDC and 226 VDC or 200 VDC and 452 VDC, the output voltage reduces the output current.



Measurement accuracy (at 23 °C ± 5 °C)	AC6903H 5 kHz AC6903L 550 Hz	AC6906H 5 kHz AC6906L 550 Hz	AC6912H 5 kHz AC6912L 550 Hz	AC6918H 5 kHz AC6918L 550 Hz
Measurement				
AC voltage resolution	0.1 V			
	± (0.03% + 100 mV) (45	i Hz ~ 100 Hz)		
AC voltage accuracy	± (0.1% + 100 mV) (100) Hz ~ 999.9 Hz)		
	± (0.5% + 1 V) (1 kHz ~	5 kHz)		
rms current resolution	0.01 A		0.1 A	
	± (0.15% + 0.2% of fs)	(45 Hz ~ 65 Hz)		
rms current accuracy 1	± (0.5% + 0.5% of fs) (DC, 40 Hz ~ 999.9 Hz)		
	± (1.2% + 1.2% of fs) (1 kHz ~ 5 kHz)		
Peak current resolution	0.01 A		0.1 A	
Peak current accuracy 2	4% of full scale			
Active power resolution	1 W		10 W	
Active power accuracy 13 (Low range/High Range)	\pm (0.7% + 0.7% of fs + 0.001% of fs/V) / \pm (0.7% + 0.7% of fs + 0.0005% of fs/V) (45 Hz ~ 100 Hz)			
Apparent power resolution	1 VA		10 VA	
Apparent power accuracy 13 (Low range/High Range)	\pm (0.3% + 0.3% of fs + 0.001% of fs/V) / \pm (0.3% + 0.3% of fs + 0.0005% of fs/V) (45 Hz ~ 100 Hz)			
Power factor resolution	0.01			
DC Voltage resolution	0.1 V			
DC Voltage accuracy	0.05% + 150 mV			
Output stability				
Line regulation 4	±0.1%			
Load regulation ^{5 6} (Low range/High Range) ≤ 100 Hz ≤ 500 Hz ≤ 1 kHz	±0.1 V / ±0.2 V ±0.3 V / ±0.6 V ±1 V / ±2 V			±0.2 V / ±0.4 V ±0.3 V / ±0.6 V ±1 V / ±2 V
Total harmonic distortion ⁶	0.3% (≤100 Hz), 0.5% (≤	≤330 Hz), 1.5%/kHz (≤5 kHz)		

- 1. At 10 % to 100 % of maximum rated current; sine wave. fs = full scale.
- Pulse height of sine wave.
 Power factor of 1.
- 4. For input voltage changes within the rated range.
- For output current changes within 0 to 100 % of the rating when not using the compensation function.
 When the output phase voltage is 80 V 160 V (Low range) or 160 V 320 V (High range), the load power factor is 1, and the response is FAST at the output terminal block



Supplemental characteristics

Supplemental characteristics		AC6903H 5 kHz AC6903L 550 Hz	AC6906H 5 kHz AC6906L 550 Hz	AC6912H 5 kHz AC6912L 550 Hz	AC6918H 5 kHz AC6918L 550 Hz		
Output							
Max peak current 1		4 times the maximum output current					
Inrush current capacity		Current at 1.4 times the m	naximum output current for 0.5	S			
Temp coefficient ² 100		100 ppm/°C	100 ppm/°C				
Transien	nt response 3		40 μs (Fast)				
Respons	se speed Tr/Tf 4		40 μs (Fast), 100 μs (Med	lium), 300 μs (Slow)			
Ripple no	oise 5		0.25 Vrms		0.3 Vrms	0.4 Vrms	
Variation	according to		Output voltage correction				
	requency 67		± 0.3% (1 Hz~1 kHz), ± 1	,			
Hama an			Output voltage correction	function disable: -3 dB (5 kHz)			
	ics measureme	IL	10.11- 1.11				
	ental frequency		10 Hz ~ 1 kHz				
	nit harmonic		5th to 50th				
Measure	ement items		Rms voltage and current	1 0			
Current r	magnitude accura	асу	0.15% + 0.20% of fs (Fundamental 50 Hz or 60 Hz) 1.2% + 1.2% of fs (Harmonics 2nd to 50th)				
Output i 1P	impedance						
	Resistance		0 Ω to 667 m Ω	0 Ω to 333 m Ω	0 Ω to 167 mΩ	0 Ω to 111 m Ω	
Low		Fast	13 μH to 667 μH	7 μH to 333 μH	3 μH to 167 μH	2 μH to 111 μH	
Low	Reactance	Med	27 μH to 667 μH	13 μH to 333 μH	7 μH to 167 μH	4 μH to 111 μH	
		Slow	80 μH to 667 μH	40 μH to 333 μH	20 μH to 167 μH	13 μH to 111 μH	
Res	Resistance		0 Ω to 2667 mΩ	0 Ω to 1333 mΩ	0 Ω to 667 mΩ	0 Ω to 444 mΩ	
Lliah		Fast	53 μH to 2667 μH	27 μH to 1333 μH	13 μH to 667 μH	9 μH to 444 μH	
High	Reactance	Med	107 μH to 2667 μH	53 μH to 1333 μH	27 μH to 667 μH	18 μH to 444 μH	
		Slow	320 µH to 2667 µH	160 μH to 1333 μH	80 μH to 667 μH	53 μH to 444 μH	
1P3W or	r 3P						
	Resistance		0 Ω to 2000 $m\Omega$	0 Ω to 1000 $m\Omega$	0 Ω to 500 m Ω	0 Ω to 333 m Ω	
Laur		Fast	40 μH to 2000 μH	20 μH to 1000 μH	10 μH to 500 μH	7 μH to 333 μH	
Low	Reactance	Med	80 μH to 2000 μH	40 μH to 1000 μH	20 μH to 500 μH	13 μH to 333 μH	
		Slow	240 μH to 2000 μH	120 μH to 1000 μH	60 μH to 500 μH	40 μH to 333 μH	
	Resistance		0 Ω to 8000 mΩ	0 Ω to 4000 m Ω	0 Ω to 2000 mΩ	0 Ω to 1333 mΩ	
1.05-4		Fast	160 μH to 8000 μH	80 μH to 4000 μH	40 μH to 2000 μH	27 μH to 1333 μH	
High	Reactance	Med	320 µH to 8000 µH	160 μH to 4000 μH	80 μH to 2000 μH	53 µH to 1333 µH	
		Slow	960 µH to 8000 µH	480 μH to 4000 μH	240 μH to 2000 μH	160 µH to 1333 µH	

- 1. Repeated output is possible when the crest factor is four.
- For changes within the operating temperature range at output phase voltage 100 V / 200 V; no load.
 When the output voltage is 100 V / 200 V, the load pf is 1, the output current changes from 0 A to the rated value and from the

- 3. When the output voltage is 100 V / 200 V, the load pris 1, the output current changes from 0 A to the rated value and from the rated value to 0 A.
 4. At 10% to 90% of the output voltage.
 5. 5 Hz to 1 MHz components are in DC mode.
 6. The voltage variation over 40 Hz to 5 kHz in AC mode with 55 Hz as the reference.
 7. When the output phase voltage is 80 V to 160 V (Low range) or 160 V to 320 V (High range), the load power factor is 1, and the response is EAST. response is FAST.



Supplemental characteristics	AC6903H 5 kHz AC6903L 550 Hz	AC6906H 5 kHz AC6906L 550 Hz	AC6912H 5 kHz AC6912L 550 Hz	AC6918H 5 kHz AC6918L 550 Hz
Output On/Off phase angle set	ting			
Setting range	0.0 degrees to 360.0 deg	rees (0.0 degrees = 360.0 degr	rees)	
Resolution	0.1 degrees	0.1 degrees		
Accuracy 1	± 1 degree (≤1 kHz)			
Input				
Apparent power	≤ 4 kVA	≤ 7.8 kVA	≤ 15.6 kVA	≤ 23.4 kVA
Power factor ²	0.93 (TYP)	0.95 (TYP)		
Efficiency ²	82% (TYP)	85% (TYP)		
Hold-up time for power interruption ²	10 ms			
Frequency (nominal)	50 ~ 60 Hz			
Frequency (variation)	45 ~ 65 Hz			
200V input model				
Voltage (nominal)	100 to 120 Vrms / 200 to 240 Vrms	200 to 230 Vrms		
Voltage (variation)	85 to 132 Vrms / 170 to 250 Vrms	170 to 250 Vrms		
Phase	1P	3P3W		
Max input current (rms) 3	48 A / 24 A	27 A	53 A	80 A
Protective conductor current ⁴	≤ 3.5 mA	≤ 10 mA	≤ 15 mA	≤ 20 mA
400V input model				
Voltage (nominal)	-	380 to 480 Vrms		
Voltage (variation)	-	323 to 519 Vrms		
Phase	-	3P4W		
Max input current (rms) 3	-	14 A	28 A	42 A
Protective conductor current	-	≤ 3.5 mA	≤ 3.5 mA	≤ 3.5 mA
Mechanical				
Net weight (200 V / 400 V) (kg)	28	47 / 49	71 / 72	104 / 106
Net dimension, W x H x D (mm)	430 x 129.2 x 667.5	430 x 262 x 562	430 x 389 x 562	430 x 563 x 562
Overall dimension (with wheel and safety cover), W x H x D (mm)	440 x 160 x 720	445 x 345 x 650	445 x 475 x 650	445 x 660 x 665
Input terminal	M6	M5	M5	M8 (200 V input) M5 (400 V input)
Output terminal	M6	M5	M5	M6



Lag in phase due to response speed not included.
 Output voltage at 100 V/200 V, rated output current, sine wave, load power factor 1, output frequency 40 Hz to 1 kHz.
 The current at the minimum voltage within the allowable variation range.
 Output voltage at 100 V/200 V, rated output current, sine wave, load power factor 1, output frequency 45 Hz to 65 Hz

General	All models
Insulation resistance: Primary-to-chassis Output-to-chassis Primary-to-output	500 Vdc, 10 M Ω or more
Withstand voltage: Primary-to-chassis Output-to-chassis Primary-to-output	1500 Vac, 2150 Vdc, 1 minute
Isolation to ground	320 Vrms / 452 Vdc
Electromagnetic compatibility (EMC)	Complies with requirements for the following directive and standards: EMC Directive 2014/30/EU EN 61326-1 (Class A ¹), EN 55011 (Class A1, Group 1 ²) Applicable under the following conditions: The maximum length of all cabling and wiring connected to the product must be < 3 m (< 9.8 feet); excluding the cable which connects to the LAN
Safety	Complies with the requirements of the following directive and standards: Low voltage directive 2014/35/EU ¹ EN 61010-1 (Class I ³ , Pollution Degree 2 ⁴)
Environmental conditions	
Operating environment	Indoor use, overvoltage category II
Operating temperature range	0 to 40 °C (32 °F to 104 °F)
Storage temperature range	-10 to +60 °C (14 °F to 140 °F)
Operating humidity range	20% RH to 80% RH (no condensation)
Storage humidity range	90% RH or less (no condensation)
Altitude	Up to 2000 m (6561.7 feet)

- 1. This is a Class A instrument. The intended use for this product is in an industrial environment. This product may cause interference if used in residential areas. Avoid residential use unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.
- 2. This is a Group 1 instrument. This product does not generate and / or use radio frequency energy in the form of electromagnetic radiation, inductive and / or capacitive coupling for the treatment of material, or inspection / analysis purposes.
- 3. This product conforms to Class I. For safety reasons, be sure to ground the protective conductor terminal of this product.
- 4. Pollution in addition to foreign matter (solid, liquid, or gaseous) may produce a reduction of dielectric strength or surface resistivity. Pollution Degree 2 assumes only non-conductive pollution will occur except for an occasional temporary conductivity caused by condensation.



Output characteristics

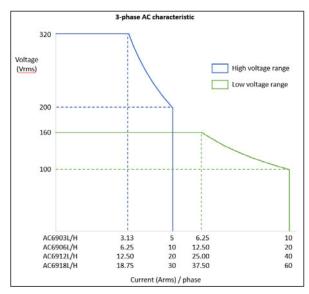


Figure 9. 3-phase AC characteristic

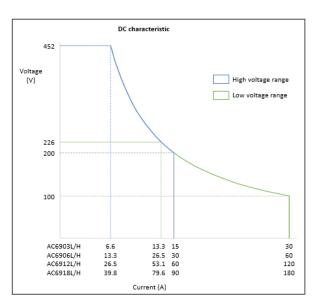


Figure 10. DC characteristic

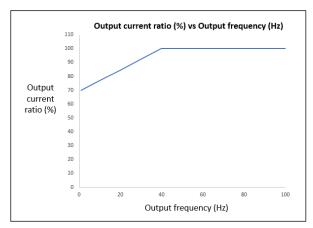


Figure 11. Output current ratio (%) vs Output frequency (Hz)

Ordering Information

Keysight AC6900 series 3-phase AC power sources

Model	Description
AC6903H	AC power source 320 Vrms, 3 kVA, 5 kHz, 3Φ
AC6903L	AC power source 320 Vrms, 3 kVA, 550 Hz, 3Φ
AC6906H	AC power source 320 Vrms, 6 kVA, 5 kHz, 3Φ
AC6906L	AC power source 320 Vrms, 6 kVA, 550 Hz, 3Φ
AC6912H	AC power source 320 Vrms, 12 kVA, 5 kHz, 3Φ
AC6912L	AC power source 320 Vrms, 12 kVA, 550 Hz, 3Φ
AC6918H	AC power source 320 Vrms, 18 kVA, 5 kHz, 3Φ
AC6918L	AC power source 320 Vrms, 18 kVA, 550 Hz, 3Φ
BV0026B	PathWave BenchVue AC source control software
BV0028B	PathWave BenchVue AC source avionics standard test software

Standalone accessories

Model	Description
AC69GPBU	GPIB interface board
AC69ALGU	Analog interface connector
AC69DIGU	Digital interface connector
AC69PAR1	Parallel operation cable (not applicable for AC6903L/H)
AC69SYN1	Synchronization cable (not applicable for AC6903L/H)

For more information

About AC power sources, visit www.keysight.com/us/en/products/ac-power-sources.html



Options

Model	Factory input option	Rack kit	
AC6903L/H	NA	AC69RAC3	
AC6906L/H	200	AC69RAC6	
	400		
AC6912L/H	200	AC69RAC12	
	400		
AC6918L/H	200	AC69RAC18	
	400		

Option MEM

Option MEM provides a micro-SD card, which can be easily removed for sanitization purposes. Option MEM can only be ordered when the instrument is purchased.

Note that instruments with Option MEM will not turn on if the original SD card is not installed in the unit. Refer to the Operating and Programming Guide for more information.

Power cords and terminations (plugs)

Due to the number of different power cords and terminations around the world, the AC6900 series power supplies do not come with power cords or terminations. Users will need to supply their own dependent on the local laws and codes of the country/region where the power supply will be used. Please refer to the user manual for power cord specifications. AC6900 Series Operating and Programming Guide.





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