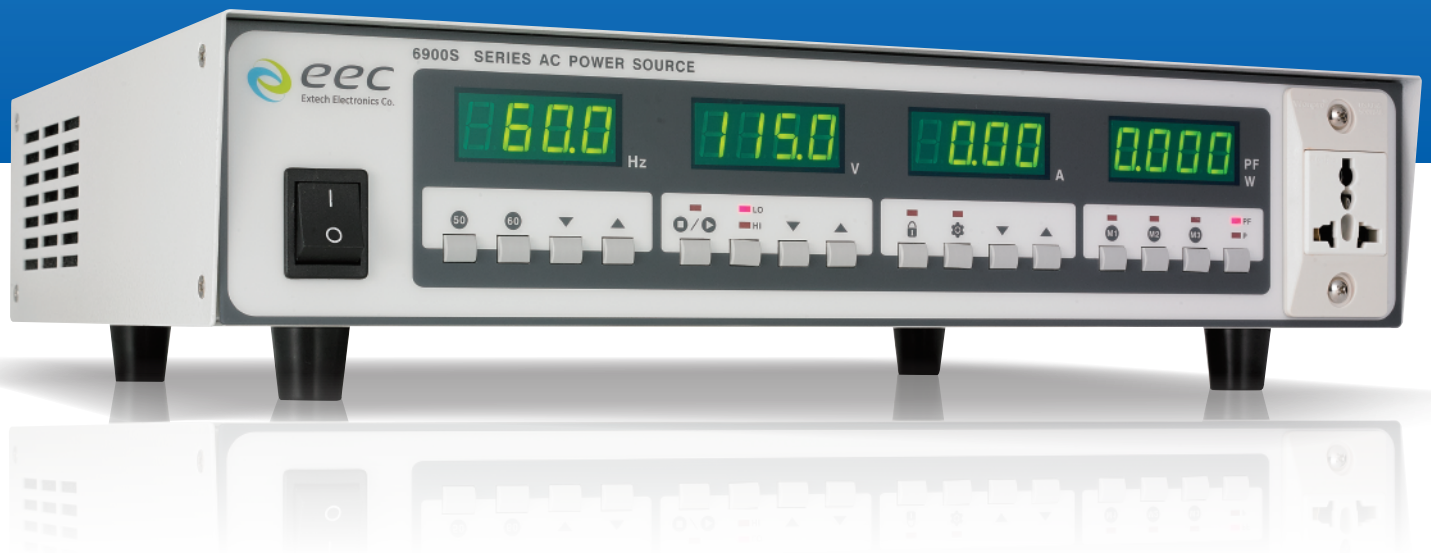


EEC 6900S AC Power Source

Datasheet



Simple AC Power Source, Valuable in Performance

Welcome to the next generation in testbed power sources. Extech Electronics Co. (EEC) presents the 6900S AC Series Power Source, offering cleaner, more reliable power to confidently test your electronic product designs and prototypes. Intuitive system interface and flexible operation are now at your fingertips thanks to a wide range of power selection options for every test scenario: home electronic appliances, power adapters, LEDs, and even laboratory testing. The 6900S delivers unmatched value, adaptability, and performance to keep your business running at optimal efficiency and effectiveness.



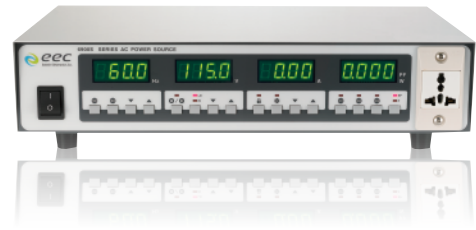
Key Features

A Flexible and Reliable Power Supply

- imulate real-world global AC power conditions with a wide and flexible combination of adjustments for output voltage ranges of 0- 310V and frequency range of 40-450Hz
- High crest factor and inrush current capabilities provide more powerful sources
- EEC proprietary Over Current Fold (OCF) function automatically adjusts in voltage maintaining current for activating the DUT
- Superior clean power delivery with low THD of 0.3% whether powered at 50Hz or 60Hz
- Effective cooling function for added reliability and maximum business uptime

Easy Operation

- Intuitive user interface design for easy parameter settings
- Three fast recall settings increase operational efficiencies
- Dedicated LED indicator for better visibility and reading accuracy
- Compact size, only 89mm (2U) height with 2kVA rating*



Model	6905S	6910S	6920S	6930S	6950S		
OUTPUT							
Phase	1 \emptyset						
Power rating	500VA	1000VA	2000VA	3000VA	5000VA ¹		
Voltage	Range 0 - 310V						
	Resolution 0.1V						
	Accuracy $\pm(1\%$ of setting + 0.1% f.s)		Accuracy $\pm(1\%$ of setting + 0.2% f.s)				
Max. Current (r.m.s) ²	0-155V	4.6A	9.2A	18.4A	27.6A	46.0A	
	0-310V	2.3A	4.6A	9.2A	13.8A	23.0A	
Frequency	Range 40 - 450Hz Full Range Adjust						
	Resolution 0.1Hz at 40.0 - 99.9Hz, 1Hz at 100 - 450Hz						
	Accuracy $\pm 0.03\%$ of setting						
Total Harmonic Distortion (THD)	<0.3% at 110 / 220V & 50 / 60Hz (Resistive Load)						
Crest Factor	≥ 3						
Line Regulation	$\pm 0.1V$						
Load Regulation	$\pm (0.5\%$ of output + 0.5V) at Resistive Load						
INPUT							
Phase	1 \emptyset						
Voltage	110 / 220Vac $\pm 10\%$			220Vac $\pm 10\%$			
Max. Current	10A / 5A	20A / 10A	20A	30A	50A		
Frequency	47 - 63Hz						
Power Factor	≥ 0.67						
MEASUREMENT							
Voltage	Range 0.0 - 400.0V						
	Resolution 0.1V						
	Accuracy $\pm(1\%$ of reading + 0.1% f.s)		Accuracy $\pm(1\%$ of reading + 0.2% f.s)				
Current (r.m.s)	Range	L	0.005A - 0.600A	0.005A - 1.200A	0.005A - 2.400A	-	-
		H	0.50A - 6.50A	1.00A - 13.00A	2.00A - 26.00A	0.05A - 39.00A	0.05A - 65.00A
	Resolution	L	0.001A	0.001A	0.001A	-	-
		H	0.01A				
Accuracy	L	$\pm (1\%$ of reading + 0.005A) at voltage > 5V			-	-	
	H	$\pm (1\%$ of reading + 0.05A)					
Frequency	Range 0.0 - 450.0Hz						
	Resolution 0.1Hz						
	Accuracy $\pm 0.1\%$						
Power	Range	L	0.0W - 60W	0.0W - 120W	0.0W - 240W	-	-
		H	50W - 650W	100W - 1300W	200W - 2600W	0W - 3900W	0W - 6500W
	Resolution	L	0.1W	0.1W	0.1W	-	-
		H	1W				
Accuracy ³	L	$\pm (2\%$ of reading + 1.5W)		$\pm (2\%$ of reading + 3W)		-	-
	H	$\pm (2\%$ of reading + 5W)		$\pm (2\%$ of reading + 10W)		$\pm (2\%$ of reading + 5W)	

1 When PF \leq 0.8 output can work continuously

2. Maximum current when output voltage at 110V / 220V

3. At PF \geq 0.2 and voltage > 5V

* 6905S, 6910S, 6920S Models

GENERAL					
I/P Terminal	Inlet	Terminal	Terminal	Terminal	Terminal
Memory	3 memories				
Display	Green LED				
Efficiency ⁴	≥ 80%				
Protection	OCP, OVP, OPP, OTP, Short Circuit and Alarm				
Operation Environment	0-40 °C / 20-80%RH				
Dimension (W x H x D), mm	430 x 89 x 300	430 x 89 x 400	430 x 89 x 500	430 x 222 x 500	430 x 222 x 500
Weight	12.5Kg	18.2Kg	30Kg	57Kg	65Kg

4. 6905S Efficiency ≥ 78%

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Models and Options

Model

- 6905S AC Power Source 0 – 310V / 40 – 450Hz (500VA)
- 6910S AC Power Source 0 – 310V / 40 – 450Hz (1000VA)
- 6920S AC Power Source 0 – 310V / 40 – 450Hz (2000VA)
- 6930S AC Power Source 0 – 310V / 40 – 450Hz (3000VA)
- 6950S AC Power Source 0 – 310V / 40 – 450Hz (5000VA)



Option

- Opt.629 Input Voltage 100V / 200V for 6905S & 6910S
- Opt.630 Input Voltage 120V / 240V for 6905S & 6910S
- Opt.631 Input Voltage 200V for 6920S & 6930S & 6950S
- Opt.632 Input Voltage 240V for 6920S & 6930S & 6950S

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