

# 6900S Series

## AC Power Source

The 6900S series AC power source offers 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.



### Key Highlight

- Simulate worldwide 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 adjust voltages, maintaining current for activating the DUT.
- Superior clean power delivers low THD of 0.3% when powered at 50Hz or 60Hz.
- Effective cooling performance for a better reliability and maximum business uptime.
- Intuitive user interface design for easy parameter settings.
- Three fast recall settings to increase operational efficiencies.
- Dedicated LED indicator for better visibility and reading accuracy.
- Compact size, only 2U (89mm) height with 2kVA rating (6905S, 6910S, 6920S Models).

### Protection



Over Current Protection



Over Voltage Protection



Over Power Protection



Over Temperature Protection



Short Current Circuit

### Safety and Productivity

#### Features

##### OCF

OC Fold

#### EEC Benefits



APAC Only

# Specifications – 6900S Series (APAC Only)

6900S Series						
MODEL	6905S	6910S	6920S	6930S	6950S	
<b>AC OUTPUT</b>						
Phase	1Ø					
Power Rating	500VA	1kVA	2kVA	3kVA	5kVA <sup>1</sup>	
Voltage	Range	0 - 310V				
	Resolution	0.1V				
	Accuracy	±(1% of setting + 0.1% f.s)		±(1% of setting + 0.2% f.s)		
Max. Current (r.m.s) <sup>2</sup>	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	±0.03% of setting				
Total Harmonic Distortion (THD)	< 0.3% at 110/220V & 50/60Hz (Resistive Load)					
Inrush Current	4 times rated Current(r.m.s)					
Crest Factor	3 times rated Current(r.m.s)					
Line Regulation	± 0.1V					
Load Regulation	±(0.5% of output + 0.5V) at Resistive Load					
<b>INPUT</b>						
Phase	1Ø					
Voltage	110/220VAc ± 10%		220VAc ± 10%			
Max. Current	10/5A	20/10A	20A	30A	50A	
Frequency	47 - 63Hz					
Power Factor	≥ 0.67					

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MODEL		6905S	6910S	6920S	6930S	6950S	
<b>MEASUREMENT</b>							
Voltage	Range	0.0 - 400.0V					
	Resolution	0.1V					
	Accuracy	±(1% of reading + 0.1% f.s)			±(1% of reading + 0.2% f.s)		
Current	Range	L	0.005 - 0.600A	0.005 - 1.200A	0.005 - 2.400A	-	-
		H	0.50 - 6.50A	1.00 - 13.00A	2.00 - 26.00A	0.05 - 39.00A	0.05 - 65.00A
	Resolution	L	0.001A			-	-
		H	0.01A				
	Accuracy	L	±(1% of reading + 0.005A) at voltage > 5V			-	-
		H	±(1% of reading + 0.05A)				
Frequency	Range	0.0 - 450.0Hz					
	Resolution	0.1Hz					
	Accuracy	±0.1Hz					
Power <sup>3</sup>	Range	L	0.0 - 60W	0.0 - 120W	0.0 - 240W	-	-
		H	50 - 650W	100 - 1300W	200 - 2600W	0 - 3,900W	0 - 6,500W
	Resolution	L	0.1W			-	-
		H	1W				
	Accuracy	L	±(2% of reading + 1.5W)		±(2% of reading + 3W)	-	-
		H	±(2% of reading + 5W)		±(2% of reading + 10W)	±(2% of reading + 5W)	

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MODEL	6905S	6910S	6920S	6930S	6950S
<b>GENERAL</b>					
I/P Terminal	Inlet	Terminal			
Memory	3 memories				
Display	Green LED				
Efficiency	≥ 78% (at Full Load)	≥ 80% (at Full Load)			
Protection	OCP, OVP, OPP, OTP, Short Circuit ; Alarm and shutdown				
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH				
Dimension (W x H x D), mm <sup>4</sup>	430 x 89 (111) x 300 (310)	430 x 89 (111) x 410 (429)	430 x 89 (111) x 510 (529)	430 x 222 (246) x 506 (531)	430 x 222 (246) x 526 (536)
Weight	12.5kg	18.2kg	30kg	57kg	65kg
<b>INBOX ACCESSORIES</b>					

Power Cable (10A) for 6905S

Subject to change without prior notice.

1. When  $PF \leq 0.8$  output can work continuously.
2. Maximum current when output voltage at 110/220V.
3. At  $PF \geq 0.2$  and voltage > 5V.
4. Figure in parentheses are maximum values with fixture stand.

## Models

- 6905S AC Power Source 0 - 310V/40 - 500Hz (500VA)
- 6910S AC Power Source 0 - 310V/40 - 500Hz (1kVA)
- 6920S AC Power Source 0 - 310V/40 - 500Hz (2kVA)
- 6930S AC Power Source 0 - 310V/40 - 500Hz (3kVA)
- 6950S AC Power Source 0 - 310V/40 - 500Hz (5kVA)

## Options

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