8500 Series

Programmable AC Power Source

The EEC 8500 Series is the most power dense and functionality rich source in EEC history, giving you improved capability, functionality, and a reduced footprint in one series. These new models provide an output voltage of up to 310 VAC and an output frequency ranging from 5 Hz - 1,200 Hz, making it the obvious solution for all kinds of applications. Configure this power source as a simple bench top AC Power Source in Manual mode or, as an upgraded option, Advanced mode, to be used with an interface to a PC. The 8500 Series includes the following models: 8505, 8512, 8520, 8530, 8540, 8560



Features

- 14 pre-configured waveforms allow you to simulate nearly any abnormal condition on your DUT by simply selecting the waveform you would like to output.
- With expanded output voltage to 310VAC and output frequency from 5Hz to 1200Hz, the 8500 provides a single, simple solution to meet a wide variety of testing applications.
- Advanced mode option allows you to easily simulate voltage surges, voltage drops, voltage pulses, voltage sweeps, DC bias, and frequency sweeps to help make meeting the specific needs of your testing application easier than it has ever been.
- High power density with a reduced overall footprint offers you the flexibility you need to use your 8500 Series power source in either a bench top or rack mount application.
- Easily upgrade and keep your command set from your 6000, 7000, or 300XAC Series with the legacy program mode.







Applicable Industries





Appliance





Laboratory

Networking





System Integrator

Liahtina



Medical

EEC Benefits





Standard

USB/RS-232 Interface **Ethernet Interface**

Options

GPIB Interface





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Modes

INPUT	STANDARD MODE	ADVANCED MODE
Manual Operation	•	•
PC Interface (USB/LAN standard, optional GPIB)		•
PowerTRAC Compatibility		•
Voltage, Frequency, Transient, and DC Bias Sweeps		•

Specifications – 8500

			8500 SPEC	IFICATIONS								
		MODEL	8505	8512	8520	8530	8540	8560				
			AC O	UTPUT								
		Phase			1Ø	2W						
	F	ower Rating	500VA	1250VA	2kVA	3kVA	4kVA	6kVA				
		Range		0 - 310V, 155/310V Auto Range								
Voltage		Resolution	0.1V									
		Accuracy		\pm (0.2% of setting + 3counts) \pm (0.2% of setting								
Max. Current		0 - 155V	5A	12.5A	20A	30A	40A	60A				
(r.m.s)1		0 - 310V	2.5A	6.25A	10A	15A	20A	30A				
		Range]	OC, 5 - 1200Hz F	Full Range Adju	st					
Frequency		Resolution		0.1Hz	at 0.0 - 999.9Hz	, 1Hz at 1000 -	1200Hz					
		Accuracy2	$\pm 0.03\%$ of setting(≥ 15 Hz) , $\pm 0.3\%$ of setting(<15 Hz)									
Total Harmonic Distortion (THD) ³			≤ 0.3% @ 50/60Hz (Full Resistive Load)									
Crest Factor4			≥ 3	≥ 3	≥ 3	2.5	≥ 3	2.5				
Inrush Current			4	4	4	3	4	3				
	Li	ne Regulation			± 0).1V						
Load Regulation ⁵			±0.2V,<1s response time									
			DC O	UTPUT								
Power rating			300W	750W	1200W	1800W	2400W	3600W				
		Range	0 - 420V, 210/420V Auto Range									
Voltage	Resolution			0.1V								
	Accuracy		±(0.2°	% of setting + 3	counts)	±(0.2	% of setting + 60	counts)				
Max.		0 - 210V	3.0A	7.5A	12.0A	18.0A	24.0A	36.0A				
Current (r.m.s)2	0 - 420V		1.5A	3.75A	6.0A	9.0A	12.0A	18.0A				
Ripple	Range L			< 700mV				< 800mV				
and Noise (r.m.s)6				< 70	< 800mV							
Ripple and Noise (p-p)6			< 6.0Vp-p < 7.0Vp-p									
	Lo	ad Regulation5			±0.2V,<1s re	esponse time						

Specifications – 8500

		8500 SPE	CIFICATIONS						
	MODEL	8505	8512	8520	8530	8540	8560		
		SE	TTINGS						
Start/End	Range	0-359							
Angle	Resolution		1						
Current Hi	0 - 155V	0.05-5.00A	0.05-12.50A	0.05-20.00A	0.10-30.00A	0.10-40.00A	0.10-60.00A		
Limit	0 - 310V	0.05-2.50A	0.05-6.25A	0.05-10.00A	0.10-15.00A	0.10-20.00A	0.10-30.00A		
(OC Fold=OFF)	Resolution			0.	01A				
OC Fold Back (OC Fold = ON)	Accuracy		± (2.0% of setting + 4 counts)						
OC	Fold Back Response Time ⁷			<	1.4s				
	Range		1.0 - 999.9	Ph/ 1.0 - 999.9m	/1.0 - 999.9s /0	.2 - 999.9ms			
Time	Resolution		0.1h/ 0.1m/ 0.1s/ 0.1ms						
	Accuracy	± ($\pm (0.1\% + 0.1 \text{ h})/ \pm (0.1\% + 0.1 \text{ m})/ \pm (0.1\% + 0.1 \text{ s})/ \pm (0.1\% + 0.1 \text{ ms})$						
	Time unit		h, m, s, ms						
	Range	0.1 - 999.9s, 0 = OFF							
_	Resolution		0.1s						
Ramp up	Accuracy	frequency ≤ 10 Hz/ $\pm (0.1\% + 0.1 s)$ at Output frequency > 10 H.							
		II	NPUT						
	Phase		1Ø						
Voltage		1	100 - 240 V ± 10% 200 - 240 V ± 10%) V ± 10%	1Ø/3Ø3W: 200-240V±10% 3Ø4W: 346 - 416V ± 10%		
Max. Current		8A	18A	30A	22A	30A	1Ø :45A/3Ø3W: 38A 3Ø4W: 22A		
	Frequency		50 / 60 Hz						
	Power Factor ⁸	≥ 0.93	≥ 0.93						

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			8500 S	PECFICIATIONS						
MODEL			8505	8512	8520	8530	8540	8560		
			MEA	ASUREMENT						
	Range				0 - 310V, 155/31					
Voltage(AC)	Resolu	ution			0.	1V				
	Accur	acy2	±(0.	$\pm (0.2\% \text{ of reading} + 3\text{counts}) \text{ at voltage} > 5V$ $\pm (0.2\% \text{ of reading} + 6\text{counts})$ at voltage $> 5\text{V}$						
		Range		0 - 420V, 210/420V Auto Range						
Voltage(DC)	Resolution		0.1V							
	Accur	acy2	±(0.	2% of reading + 3	±(0.2% of reading + 6counts) at voltage > 5V					
	Pango	L	0.050 - 1.200A	050 - 1.200A 0.050 - 5.000A			-			
	Range	Resolution	1.00 - 6.25A	4.00 - 15.62A	4.00 - 25.00A	0.10 - 37.50A	0.10 - 50.00A	0.10 - 75.00A		
C0	D 1 .: 3	L		0.001A			-			
Current ⁹	Resolution ³	Н			0.0	0.01A				
		L	± (1% of re	± (1% of reading + 10counts) at CF < 3						
	Accuracy2	Н	± (0.5	5% of reading +8cc	ounts)	± (0.5% of reading +12counts)				
	Range				0.0 - 1	200Hz				
Frequency	Resolution		0.1Hz / 1Hz							
	Accu	racy		±0.1	Hz @ 5 - 999.9Hz. /	±1Hz @ 1000 - 12	00Hz			
		L	0.0 - 75.0W	0.0 - 3	00.0W					
	Range	Н	60 - 625W	240 - 1563W	240 - 2500W	0 - 3750W	0 - 5000W	0 - 7500W		
		L		0.1W			-			
- 10	Resolution	Н			1\	N				
Power10 (AC,DC)	Accuracy	L	\pm (1% of reading +10 counts) at PF \geq 0.35 and voltage $>$ 5V	5						
		Н	± (1% of reading +5 counts) at PF ≥ 0.35 and voltage > 5V		ng +10 counts) nd voltage > 5V	± (1% of reading +20 counts) at PF ≥ 0.35 and voltage > 5V				
	Range		0.000 - 1.000							
Power Factor	Resolu	ution	0.001							
	Accuracy			W/VA, Calculated and displayed to three significant digits						
	Range	L	0.0 - 75.0VA	0.0 - 3	00.0VA		-			
D		Н	60 - 625VA	240 - 1563VA	240 - 2500VA	0 - 3750VA	0 - 5000VA	0 - 7500VA		
Power Apparent (VA)	Resolution	L		0.1VA		-				
	Resolution	Н	1VA							
	Calculated	l Formula			$\sqrt{V{ imes}A}$, Calcu	ulated value				
	Ran	ge	0.0 - 20.0Apk	0.0 - 50.0Apk	0.0 - 80.0Apk	0.0 - 120.0Apk	0.0 -160.0Apk	0.0 -240.0Apk		
Peak Current Measurement	Resolu	ution		0.1A						
Measurement	Accu	racy		± (0.5% of rea	ding +8counts)		± (0.5% of reading +12counts)			
	Range	L	0.0 - 75.0VAR	0.0 - 30	00.0VAR		-			
		Н	60 - 625VAR	240 - 1563VAR	240 - 2500VAR	0 - 3750VAR	0 - 5000VAR	0 - 7500VAR		
Reactive Power	Resolution	L	0.1VAR -							
Measurement			1VAR							
	Calculated Formula		$\sqrt{(VA)^2 - (VA)^2}$, Calculated value							
	Ran		0.00 - 10.00							
Crest Factor										
Measurement	Resolu		0.01							
	Accu	гасу	Ap/A							

Specifications – 8500

		8500 SP	ECFICIATIONS						
	MODEL	8505	8512	8520	8530	8540	8560		
		(SENERAL						
	PLC Remote Control	Input:Output ON, Output OFF/Reset, Output Verify, Interlock,File Recall M1 through M7, Trigger Output: Fail, Test-in-Process							
	Rear Input	AC Outlet Terminal Block							
M =	Std.	10 x 100 (file x sequence) / MANUAL only 10 file no sequence							
Memory	Adv.	100 x 100 (file x sequence) / MANUAL, STEP, PULSE only 100 file no sequence							
Sync Signal/	Std.	ON/OFF							
Ext Trigger	Adv.	ON / START / END / BOTH / OFF / EVENT, Output Signal 5V ,BNC type							
	Display			4.3" TF	T LCD				
	Protection	OCP, OVP, OPP, OTP, LVP, RCP and FAN.							
	Interface	Standard USB, PLC remote, LAN, Analog / Option GPIB, RS-232							
	Eeciency (at Full load)11		≥ 81%	≥ 84%	≥ 83%	≥ 84%	≥ 84%		
	Response Time (Tr/Tf) ¹²	275-400usec (Typical)							
Elect	tromagnetic compatibility (EMC)	Complies with the requirements of the following directive and standards. EMC Directive 2014/30/EU EN 55011:2016/A1:2017 (Group 1, Class A), EN 61326-1:2013, EN 61326-2-1:2013, EN 61000-3-11:2000, EN 61000-3-12:2017							
	Safety	Complies with the requirements of the following directive and standards. Low Voltage Directive 2014/30/EU, EN 61010-1							
Op.	. / Non-Op. Temp. / Humidity ¹³	0 to 40°C/-40 to 75°C/20 to 80%RH							
	Dimension (W x H x D), mm		430 x 88 x 500	430 x 88 x 500	430 x 88 x 500	430 x 176 x 500	430 x 176 x 500		
	Weight		15KG	15KG	15KG	28KG	28KG		
		STANDAR	D ACCESSORIES	5					
Interlock Disable Key (1505)									
	USB Cable	X1							
	Shorting bar	X1							
P	Power Cord (125Vac/10A)	X1 -							

Specifications subject to change

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