

EAB Series Modular Programmable AC Power Source



The EAB series modular AC power source is supported up to 3 sources linked connection. The flexible design easily fulfills any power requirement by various combinations. Not only it could expand the power wattage, simulate all kinds of power utility system, also increase the maximum voltage output. Most importantly, the simple modular connection setting is achievable by anyone.

Key Highlight

- Power utility system simulation (3Ø4W/1Ø3W).
- Maximum output voltage 600Vac.
- Built-in active power factor correction (PF>0.97) for energy saving.
- Large universal full range input voltage of 90 - 264Vac.
- Transient function to simulate voltage variation.
- Synchronic signal output (OFF/ON/EVENT) function is a handy tool for external monitoring, triggering use, and power analysis.

Protection

Over Current Protection	Over Voltage Protection	Over Power Protection
Over Temperature Protection	Short Current Circuit	Reverse Current Protection

Safety and Productivity Features

OC Fold	Continuous	Angle Setting	V Sense

Available Interface

USB	RS-232	Ethernet (optional)	GPIB (optional)

	AC Output	DC Output	Programmable	Single-phase Input	3-phase Input	Power Factor Correction circuit	Single-phase Output	1Ø3W Output	3-phase Output	600V Output
EAB-110	✓	✓	✓	✓	-	✓	✓	2 Units Link	3 Units Link	2 Units Link
EAB-120	✓	✓	✓	✓	-	✓	✓	2 Units Link	3 Units Link	2 Units Link
EAB-140	✓	✓	✓	✓	-	✓	✓	2 Units Link	3 Units Link	2 Units Link
EAB-160	✓	✓	✓	✓	✓	✓	✓	2 Units Link	3 Units Link	2 Units Link

EAB Series Specifications					
MODEL		EAB-110	EAB-120	EAB-140	EAB-160
AC OUTPUT					
Phase		1Ø			
Power Rating		1kVA	2kVA	4kVA	6kVA
Voltage	Range	5 - 300V, 150/300V Auto			
	Resolution	0.1V			
	Accuracy	±(1% of setting + 2 counts)		±(1% of setting + 5 counts)	
Max. Current (r.m.s) ¹	0 - 150V	9.2A	18.4A	36.8A	55.2A
	0 - 300V	4.6A	9.2A	18.4A	27.6A
Frequency	Range	40 - 1kHz Full Range Adjust			
	Resolution	0.1Hz at 40.0 - 99.9Hz, 1Hz at 100 - 1kHz			
	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		±(1% of output + 1V) at Resistive Load			
DC OUTPUT					
Power rating		1kW	2kW	4kW	6kW
Voltage	Range	0 - 210V/0 - 420V Selectable		0 - 210V/0 - 420V Selectable > 5V	
	Resolution	0.1V			
	Accuracy	±(1% of setting + 2 counts)		±(1% of setting + 5 counts)	
Max. Current (r.m.s)	0 - 200V	4.8A	9.6A	19.2A	28.8A
	0 - 400V	2.4A	4.8A	9.6A	14.4A
Ripple and Noise (r.m.s)	Range	L	< 500mV		< 700mV
		H	< 800mV		< 1100mV
Ripple and Noise (p-p)		< 3.0Vp-p		< 4.0Vp-p	
Line Regulation		± 0.1V			
Load Regulation		±(1% of output + 1V) at Resistive Load			

MODEL	EAB-110		EAB-120		EAB-140	EAB-160	
INPUT							
Phase	1Ø				1Ø or 3Ø		
Voltage	100 - 240V ± 10%			200 - 240V ± 10%		1Ø/3Ø3W : 200 - 240V ± 10% 3Ø4W : 346 - 416V ± 10%	
Max. Current	15A	30A		30A		1Ø : 45A 3Ø3W : 26A 3Ø4W : 15A	
Frequency	47 - 63Hz						
Power Factor	0.97						
MEASUREMENT							
Voltage	Range	0 - 210V/0 - 420V			0 - 210V/0 - 420V Selectable > 5V		
	Resolution	0.1V					
	Accuracy ²	±(1% of reading + 2 counts)			±(1% of reading + 5 counts)		
Current	Range	L	0.005 - 1.200A	0.005 - 2.400A	-	-	
		H	1.00 - 13.00A	2.00 - 26.00A	0.05 - 52.00A	0.05 - 78.00A	
	Resolution ³	L	0.001A		-	-	
		H	0.01A				
	Accuracy ²	L	±(1% of reading + 5 counts)			-	-
		H	±(1% of reading + 5 counts)				
Frequency	Range	0.0 - 1kHz					
	Resolution	0.1Hz					
	Accuracy	±0.1Hz (501 - 1kHz Accuracy ± 0.2Hz)					
Power	Range	L	0.0 - 120W	0.0 - 240W	-	-	
		H	100 - 1300W	200 - 2600W	0 - 5200W	0 - 7800W	
	Resolution	L	0.1W		-	-	
		H	1W				
	Accuracy (AC) ⁴	L	±(2% of reading + 15 counts)			-	
		H	±(2% of reading + 5 counts)	±(2% of reading + 10 counts)			
	Accuracy (DC) ⁴	L	±(2% of reading + 15 counts)			-	
		H	±(2% of reading + 5 counts)				

MODEL	EAB-110	EAB-120	EAB-140	EAB-160
GENERAL				
Transient (only for 40 - 70Hz)	Trans-Volt : 0.0 - 300.0V, Resolution : 0.1V Trans-Site : 0.0 - 25.0ms, Resolution : 0.1ms Trans-Time : 0.5 - 999.9ms, Resolution : 0.1ms Trans-Cycle : 0 - 9999, 0-Constant			
Remote Input Signal Interface (Optional)	Test, Reset, Recall program memory 1 through 7			
Remote Output Signal	Pass, Fail, Test-in-Process			
I/P Terminal	Terminal			
Memory	50 memories, 9 steps/memory			
Sync Output Signal	ON/Event/OFF, Output Signal 5V ,BNC type, Between the sync signal and the output voltage will be 0.5ms time difference			
Display	240 x 64 dot resolution Monographic LCD/Contrast 9 Levels 1-9			
Protection	OCP, OVP, OPP, OTP, LVP, Short Circuit, Reverse Current ; Alarm and shutdown			
Interface ⁵	Standard USB & RS232, Optional GPIB, Ethernet, Linking Card			
Op./Non-Op. Temp./Humidity	0 to 40°C/-40 to 75°C/20 to 80%RH			
Dimension (W x H x D), mm ⁶	430 x 133 (146.5) x 530 (590)	430 x 133 (146.5) x 530 (590)	430 x 267 (281) x 500 (560.6)	430 x 400.5 (473) x 500 (560.6)
Weight	20kg	21kg	40kg	53kg

INBOX ACCESSORIES

1224 USB Cable*1

*Product specifications are subject to change without notice

1. Maximum current when output voltage at 110/220V.
2. At voltage > 5V.
3. a. When output frequency ≥ 100Hz & ≤ 500Hz & N-G short, the current meter guarantee minimum current from 0.01A.
b. When output frequency ≥ 500Hz & N-G short, the current meter guarantee minimum current from 0.02A.
4. At voltage > 5V and PF > 0.2.
5. Only one interface can be selected among PLC Remote I/P interface, RS232 & USB, Ethernet & GPIB interface card.
6. Figure in parentheses are maximum values with fixture stand.

Models

- EAB-110 Modular Programmable AC Power Source
0 - 300V/40 - 1kHz (1kVA)
- EAB-120 Modular Programmable AC Power Source
0 - 300V/40 - 1kHz (2kVA)
- EAB-140 Modular Programmable AC Power Source
0 - 300V/40 - 1kHz (4kVA)
- EAB-160 Modular Programmable AC Power Source
0 - 300V/40 - 1kHz (6kVA)

Options

- OPT.109 Replace RS232 Interface by GPIB Interface
- OPT.612 PLC Remote I/P Interface
- OPT.642 Parallel & Multiphase Linking Card
- OPT.663 Replace RS232 Interface by PLC Remote Interface
- OPT.670 Suppression Input Voltage