

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-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-140	EAB-160
AC OUTPUT			
Phase		1Ø	
Power Rating		4kVA	6kVA
Voltage	Range	5 - 300V, 150/300V Auto	
	Resolution	0.1V	
	Accuracy	±(1% of setting + 5counts)	
Max. Current (r.m.s) ¹	0 - 150V	36.8A	55.2A
	0 - 300V	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		4kW	6kW
Voltage	Range	0 - 210V/0 - 420V Selectable > 5V	
	Resolution	0.1V	
	Accuracy	±(1% of setting + 5 counts)	
Max. Current (r.m.s)	0 - 200V	19.2A	28.8A
	0 - 400V	9.6A	14.4A
Ripple and Noise (r.m.s)	Range	L	< 700mV
		H	< 1100mV
Ripple and Noise (p-p)		< 4.0Vp-p	
Line Regulation		± 0.1V	
Load Regulation		±(1% of output + 1V) at Resistive Load	

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

MODEL	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	
Efficiency	≥ 80% (at Full Load)	
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 267 (281) x 500 (560.6)	430 x 400.5 (473) x 500 (560.6)
Weight	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-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