

CURRENT POWER SUPPLY IN A.C.

- ▶ EMU-25
- ▶ EMU-100
- ▶ EMU-300



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EMU RANGE

EMU-25 EMU-100 EMU-300



Current Power Supply in A.C.

DESCRIPTION

The EMU is a completely electronic unit. The following gives more details of this testing unit:

- Complete computer control with its corresponding software and communication board, RS-485. The program has the possibility to control up to 20 units at the same time.
- The unit generates a digital wave form, from a oscillating quartz and adjust this wave in 1024 point/cycle which insures the exact frequency and very low distortion.
- The reference amplitude in d.c. and the selection by a DAC of 12 bits, allows a continued feedback, comparing the output level with the reference and activates a signal which controls the power amplifier, to insure a perfect stabilized and accurate output, even though there are variations in the load, power supply, etc.
- The power module is compact, with forced ventilation and contains an auto power switch which gives the maximum power required in relation to the load. This achieves a very efficient output and low dissipation.
- The transformer load coupled to the power amplifier, allows an galvanic insulation and perfect joining of this load.
- Computer control of an external element up to 220V (ex. auxiliary contact).
- Synchronizes the output wave in phase and/or frequency with respect to external signals (external frequency/phase reference).
- The unit contains an output overload, thermal, and auxiliary power supply alarms as well as a connector for an d.c. measuring instrument, for easy verification.

FEATURES

The EMU-100 can function as a single instrument or can be connected in parallel with others of its kind. When these units are connected in parallel, the current permitted is multiplied by the number of units connected.

- All tests are made automatically, by software, with serial port RS-485.

TECHNICAL SPECIFICATION

	EMU-25	EMU-100	EMU-300
Voltage supply	220V ± 10% 50 Hz 1000VA		
Current Output (3 ranges)	0.4 A - 4 A	1.6 A - 16 A	4 A - 48 A
	4 A - 15 A	16 A - 60 A	48 A - 180 A
	15 A - 25 A	60 A - 98 A	180 A - 300 A
Nominal power (3 ranges))	4 A - 81.5 V (325 VA)	16 A - 20.3 V (325 VA)	48 A - 6.8 V (325 VA)
	15 A - 18.3 V (275 VA)	60 A - 4.6 V (275 VA)	180 A - 1.5 V (275 VA)
	25 A - 9.0 V (225 VA)	98 A - 2.3 V (225 VA)	300 A - 0.75 V (225 VA)
	55% / 82% / 100% W MAX.	55% / 82% / 100% W MAX.	55% / 82% / 100% W MAX.
Distortion	<1%		
Accuracy	±1% of the reading		
Stabilizing time	<3 s.		
Connection/Disconnection time	(electronic) <1 ms.		
Measurement Output	0 - 2 V dc		
Accuracy	Minimum: ±2% of the reading		
Auxiliary contact output (by Triac)	220V / 50 mA		
Time measurement	Starts with current injection. Stops with output open.		
Resolution	0.25 s		
Accuracy	minimum: ±0.01% of the reading ±0.25 s		
External Frequency Input	f in=1024xf out: optocoupled 5V. f out: 45 - 65 Hz		
External Phase Input	(optocoupled 5V)		
Dimensions	Width: 482 mm/19" Height: 175 mm/7" Length: 370 mm/14"		
Weight	30 Kg/75 lb.		

CHARACTERISTICS

- Nominal power: 300VA.
- Can be connected in parallel.
- Input for external phase and/or frequency reference.
- Computer controlled by serial port RS-485.
- Overload, overheating alarm leds.
- Rack mounting 19" (482 mm).
- Accuracy: ±1%.
- Distortion: <1%.

APPLICATIONS

- To test small circuit breakers.
- Calibration of shunts and measurement instruments.
- To test thermic relays which require a long duration.
- Overheating test.

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