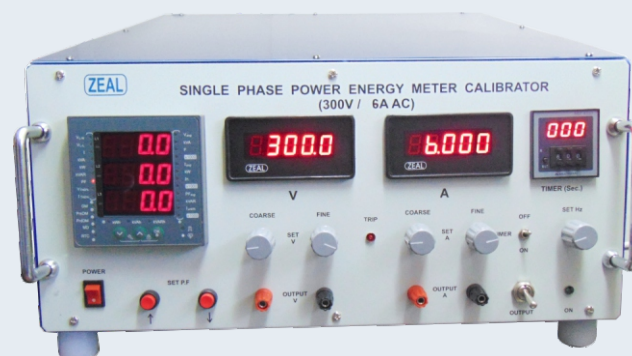


Single Phase Power / Energy Meter Calibrator

Features

- 4½ digit Panel Meters to indicate set Current & Voltage.
- Power Analyzer meter to indicates V, A, VA, VAr, W, Whr, PF and Hz.
- Current & Voltage setting by Coarse and Fine multi-turn potentiometers.
- Frequency setting by multi-turn potentiometer.
- Power Factor setting by up / down Push Buttons.
- Current output through BTI-15 terminals.
- Voltage output through BTI-15 terminals.
- Output & Timer ON / OFF through toggle switch.



ZEAL make 'Single Phase Power Energy Meter Calibrator' is a source of AC Voltage, AC Current, Power Factor, frequency, time. Thereby it is also a source of VA, VAr, W, VAhr, VARhr, and Whr. It has 2 different sine wave signals which are synchronized with each other. Both of them are amplified and controlled as per set value to get single phase voltage.

Sine wave signal is amplified and controlled as per set value to get current. To simulate power factor user can vary the phase shifts between voltage and current by 2 push buttons. By varying potentiometer of set frequency user can set the frequency. Time can be set on timer by thumbwheel switches. At any given instance timer can be switched ON and the outputs are switched OFF after the lapse of the programmed time.

Technical Specifications

Model	ZMØPEMC	
Input Power Supply	230 V AC @ 50 Hz.	
Output Voltage Range	0 to 300 V (L-N)	
Output Current Range	0 to 6 A	
Output Mode	1 Phase	
Output ports	V (Hi, Lo) & I (Hi, Lo)	
PF Range	0 (Lag) to Unity to 0 (Lead)	
Compliance	20 VA at FS on Voltage ranges & 30 VA at FS on Current Channel.	
Frequency	45 to 60 Hz	
Timer	To keep output ON for fix duration. Duration programmable in second.	
Timer Range	0 to 999 seconds.	
Setting	1) By coarse and fine set of potentiometers to set Voltage and Current.	
	2) By push button keys for Power Factor.	
	3) By potentiometer for frequency.	
Metering	Digital AC Voltmeter, Digital AC Ammeter to indicate set voltage and current.	
Accuracy	Voltage & Current: 0.15%	PF: ±1 Dgt
	Power & Energy: 0.15%	Timer: 0.05%
Sinusoidal Outputs	Typical THD 1.5%	
Temperature	Operating Temp. : 25°C ± 3°C, RH<70%	Storage Temp. : 5° C to 70° C
Protections	Overload and Short circuit	
Dimensions	450mm(W) X 400mm(D) X 200mm(H)	
Weight	22kg	

Assembly Overview

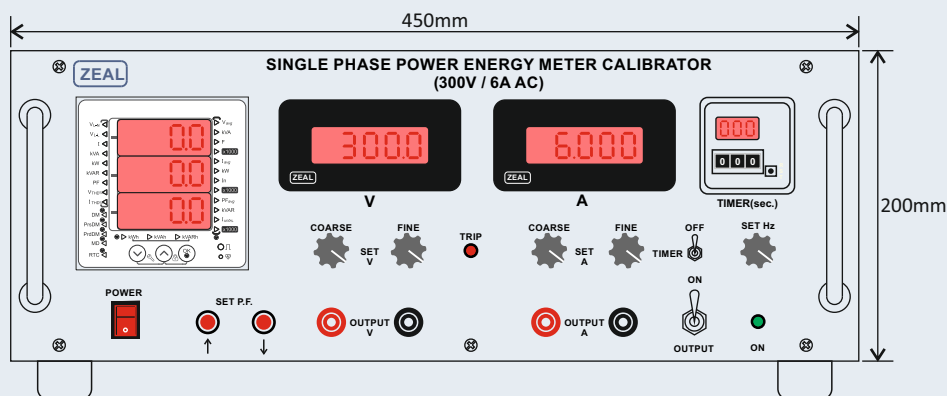


Fig.1 Front view

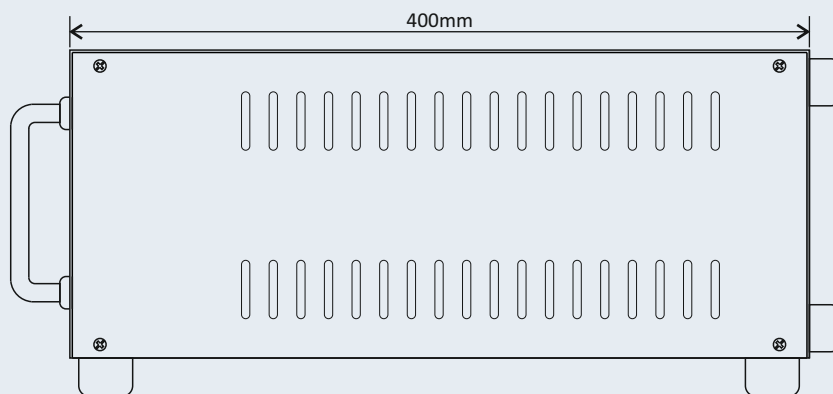


Fig.2 Side view

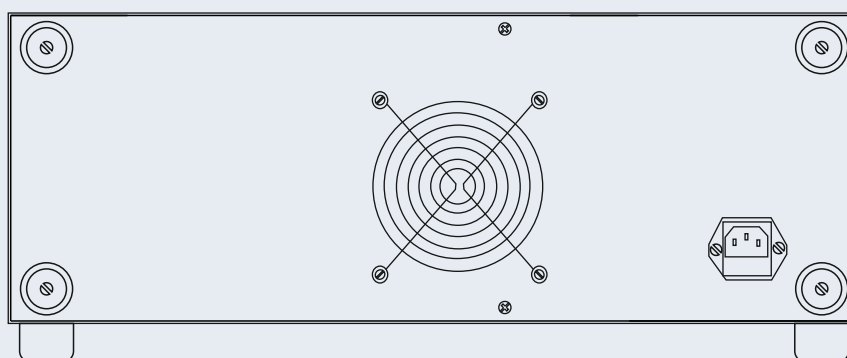


Fig.3 Rear view