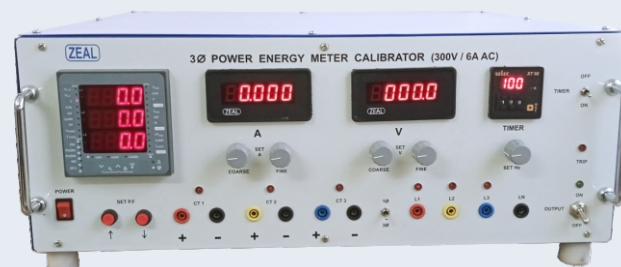


Three Phase Power / Energy Meter Calibrator

Features

- Single Phase or Three Phase Mode selection through switch.
- 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 Channel output ports (CT1, CT2 & CT3).
- Voltage Channel output ports (L1, L2, L3 & LN).
- Output & Timer ON / OFF through toggle switch.



Three 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 6 different sine wave signals which are synchronized with each other. Three of them are amplified and controlled as per set values to get phase to neutral voltages of three phases which are 120° phase shifted with each other. Other three sine wave signals are amplified and controlled as per set values to get currents of three phases which are 120° phase shifted with each other. To simulate power factor user can vary the phase shifts between the sets of voltages and currents by 2 push button keys provided so as to set lead and lag PF.

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 output currents are switched OFF after the lapse of the programmed time.

Technical Specifications

Model	ZM3ØPEMC	
Input Power Supply	230 V AC @ 50 Hz.	
Output Voltage Range	0 to 300 V (L-N) per phase or 0 to 520 V Phase to Phase.	
Output Current Range	0 to 6 A per phase	
Output Mode	3 Phase, 4 Wire & Single Phase mode selection by toggle switch.	
Output ports	Vr, Vy, Vb - N, Ir (Hi, Lo), Iy (Hi, Lo), Ib (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 Channels.	
Frequency	45 to 60 Hz	
Timer	To keep output ON for fix duration. Duration programmable in second.	
Setting	1) By coarse and fine set of potentiometer 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	550mm(W) X 560mm(D) X 200mm(H)	
Weight	40kg	

Note : 1) Current and voltage ranges can be customized as per requirement.

2) 3 phase 3 wire can be customized as per requirement.

Assembly Overview

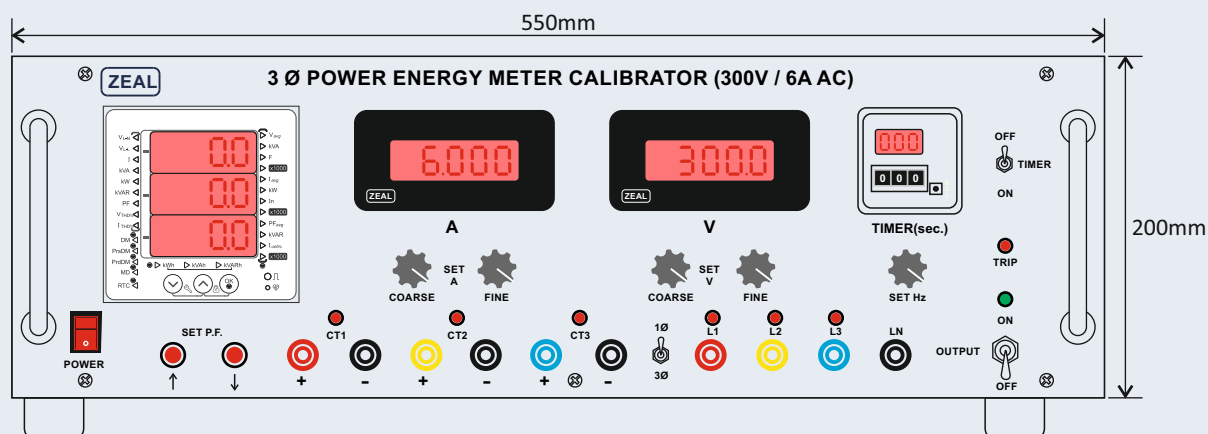


Fig. Front view

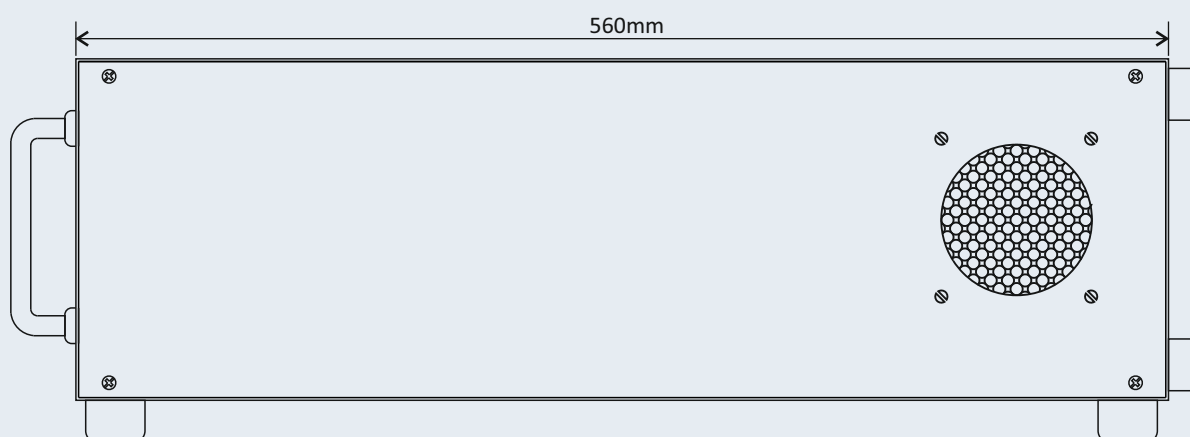


Fig. Side view

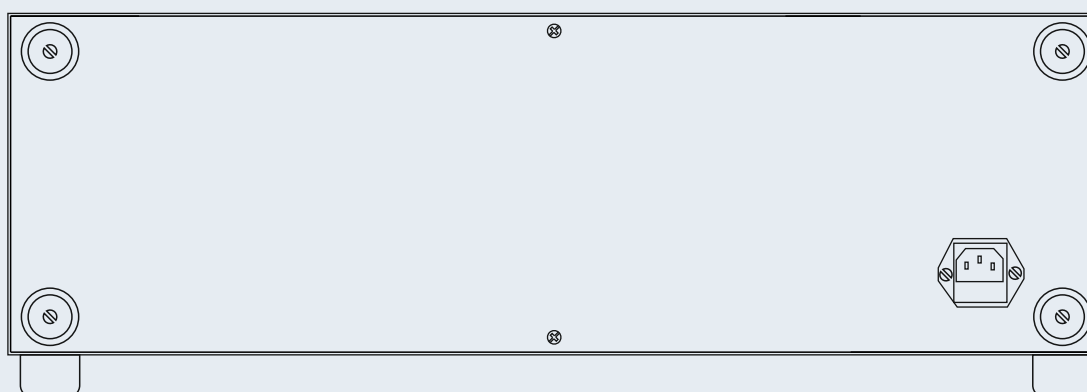


Fig. Rear view