



## Portable Load Boxes

### MODEL # LB-300

These load boxes provide a safe and convenient load for socket meters. Possible applications include meter programming, software testing, demonstrations, system testing and training.

### SPECIFICATIONS:

- ◆ Operates from a standard 120 volt outlet
- ◆ Enclosed box with cover for safety
- ◆ Polyphase Series
- ◆ Overcurrent protection (fuse)
- ◆ Main power ON light indicator.
- ◆ Max current 10A
- ◆ VARIAC to vary the current load from 0 to 10 A
- ◆ Up-right stand with stability feet
- ◆ Many functional switches
- ◆ Dimensions 15" x 9" x 4"
- ◆ Shipping weight is 21 lbs

### LB-300 SWITCHING CAPABILITIES

1. Main Power
2. Voltage A on/off
3. Voltage B on/off
4. Voltage C on/off
5. Current A bypass on/off
6. Current B bypass on/off
7. Current C bypass on/off
8. Current A reverse
9. Current B reverse
10. Current C reverse
11. Current A imbalance
12. Current B imbalance
13. Current C imbalance
14. Unity/lead/lag

### OPTION:

There is an adapter (LB-A) for non Form 9S meter applications which plugs into the LB-300 and has 3 foot leads to be connected to another socket for a different form.

**Note:** LB-305 for form 5S meters is also available



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# INSTRUCTIONS FOR PORTABLE LOAD BOX

<b>Function Name</b>	<b>Description</b>
Power	Up ( ON ) - Energizes the load box Down ( OFF ) - No voltage to the load box
Voltage Phase A, B, C	Up ( ON ) - Energizes individual VT's (3 switches) Down ( OFF ) - No voltage to individual VT's
Unity/Lead/Lag	Up ( Lag ) - Causes a lagging phase shift (all 3 phases) Middle ( Unity ) - Causes no phase shift (all 3 phases) Down ( Lead ) - Causes a leading phase shift (all 3 phases)
Fuse	120V, 0.5 amp ( Normal current is >150 mA, & 0.5A max )
VARIAC (Current adjuster)	0 to 100 % of full load. This controls the magnitude of the applied current on all 3 phases from 0 amps to the max current (typically 10A). Clockwise rotation increases current.
Imbalance (3 switches)	Creates an imbalance between current elements. Up - lightest, Middle - Most current ( Normal ) Down - light (example: Up - 4A, Middle - 12A, Down - 6A)
Reverse (3 switches)	Down - Reverses the direction of the current in individual CT's. Up - Not reversed ( Normal )
Bypass (3 switches)	Up - Removes current from individual CT's. Down - Current goes through individual CT's. ( Normal )
Removable Feet	These feet are now easily removable for shipping. There are 4 screws in the feet. They are screwed directly into the load box without any nuts or washers. Simply use a Philips screw driver to remove these 4 screws.
Cover	The front cover on Load Box should be on when the meter is inserted into the Load Box. The cover can be removed by lifting the silver tab (it is near the socket) toward the socket and then pulling the cover away from the box.
Cable hole	There is a large hole in the top which is normally covered for meter cables leaving the Load Box.
Safety	UNPLUG THE LOAD BOX FROM THE 120 V SOURCE BEFORE INSERTING OR REMOVING THE METER.

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