

# HEAVY DUTY ADJUSTABLE LOAD BANK

(HIGH POWER /INDUCTIVE &amp; NON-INDUCTIVE )

## Applications:

Automobile, generating electrical/electronic/mechanical devices like thermoelectric generator, Switchgear/protection, Slip ring motor starting, nuclear, solid state physical application, heavy electrical engineering industries, defense, electrical/mechanical m/c testing, industrial electronics, railway, and avionics and many research and development activities. Power supplies Nuclear/power plant/heavy electrical and mechanical engineering, packaging, photo-voltaic cell, hydroelectric turbine, wind generators, welding generators etc.

## Introduction:

MALBR switched load banks are either DC/AC switched load bank with resistive/ireactive loading behaviour meant for loading for different duty cycle loading behaviour. Resistive element is highly stabilized zirconium based resistors. Reactive elements are either 5.0-1000 Hz reactive device operating in leading/lagging mode. These adjustable loading banks are either water/air cooled and may be mobile transported.

## Features:

1. The steel case is powder coated and baked for durability.
2. DC type or AC type; Fixed type or Variable type available.
3. Display for voltage and Current, temperature and power of meters.
4. Load changed by switches (mechanical/solid state or wheel (by hand)
5. The unit is movable on castors. (Portable)

## General electrical /mechanical specification:

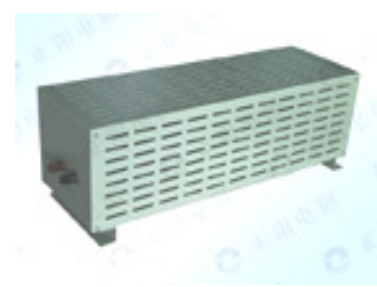
&lt;2000.0 K.VA( Resistive load)

Model	Power (K.VA) AC/DC	Reactive Power (applicable for A.C.Sytem)/DC	Volt AC/DC	Ampere AC/DC	Frequency Hz	Cooling Water/Air	Thermal rise oC
MALBR150010	1500	1000	220/option	1500.0	50-1000	Liquid/Air	65
MALBR100010	1000	1000	220/option	1000.0	50-1000	Liquid/Air	65
MALBR075008	750	750.0	220/option	1000.0	50-1000	Liquid/Air	65
MALBR060008	600	400/800	220/option	1500.0/750.0	50-1000	Liquid/Air	65
MALBR030008	300	400/800	220/option	750.0/375.0	50-1000	Liquid/Air	65
MALBR010008	100	400/800	220/option	250.0/125.0	50-1000	Liquid/Air	65
MALBR005004	050	400	220/option	125.0	50-1000	Liquid/Air	65
MALBR002004	020	400	220/option	50.0	50-1000	Liquid/Air	65
MALBR001002	010	200	220/option	50.0	50-1000	Liquid/Air	65
MALBR000502	005	200	220/option	25.0	50-1000	Air	65
MALBR000202	02	100/200	220/option	20.0/10.0	50-1000	Air	65
MALBR000102	001	100/200	220/option	10.0/5.0	50-1000	Air	65

Last two numeral after MALBR indicates volt.x100 an remaining numeral indicates power (kilo-watts).Company may develop electronic load tester On specific requirement.

## General Specification of Load Bank:

Operating voltage 220 volts, 1/3 phase, 40-60 Hz  
 Input absorbed power: 0.1 – 1500.0 kilo watt/KVAR  
 Input current/voltage 0-220/1000 amps (max)  
 Operating frequency 0.01 2000 KHz (optional to simulate harmonic)  
 Duty cycle: 0-100% at frequency as indicated above  
 Loading resolution: 0.1 KVA/KW/KVAR  
 Repeatability: 1000% of set point  
 Resolution 0.1 volts/amps D.C./KVA/K.W.  
 Repeatability 100 percent  
 Response time 0.5 –1.1 milli-seconds  
 Switching device mechanical contactor/SCR/IGBT  
 Control options 1.cascade feedback control with soft start  
 2. Constant voltage/current with external adjustment.  
 Display Voltage/current/kilo watt/Kilo-var/KVA in 3½ red glow LED display  
 Protection over voltage/short ckt.



MALBR000202

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# HEAVY DUTY ADJUSTABLE LOAD BANK

General electrical /mechanical specification:

KVA<2000.0 K.VA( Reactive load)

Model	Power (K.V.A) AC	Reactive Power (applicable for A.C.Sytem)	Volt AC	Ampere AC	Frequency Hz	Cooling Water/ Air	Thermal rise oC
MALBR150010	1500	1000	220/option	1500.0	50-1000	Liquid/Air	65
MALBR100010	1000	1000	220/option	1000.0	50-1000	Liquid/Air	65
MALBR075008	750	750.0	220/option	1000.0	50-1000	Liquid/Air	65
MALBR060008	600	400/800	220/option	1500.0/750.0	50-1000	Liquid/Air	65
MALBR030008	300	400/800	220/option	750.0/375.0	50-1000	Liquid/Air	65
MALBR010008	100	400/800	220/option	250.0/125.0	50-1000	Liquid/Air	65
MALBR005004	050	400	220/option	125.0	50-1000	Liquid/Air	65
MALBR002004	020	400	220/option	50.0	50-1000	Liquid/Air	65
MALBR001002	010	200	220/option	50.0	50-1000	Liquid/Air	65
MALBR000502	005	200	220/option	25.0	50-1000	Air	65
MALBR000202	02	100/200	220/option	20.0/10.0	50-1000	Air	65
MALBR000102	001	100/200	220/option	10.0/5.0	50-1000	Air	65

Size of Load bank (real power/reactive power):

Resistive load bank

Reactive Load Bank

MODEL	SIZE	MODEL	SIZE	MODEL	SIZE	MODEL	SIZE
MALBR000102	08X06X06	MALBR01008	16x14x14	MALBX000102	08X06X06	MALBX01008	16x14x14
MALBR000202	12x08x08	MALBR030008	18x14X12	MALBX000202	12x08x08	MALBX030008	18x14X12
MALBR000502	12x10x10	MALBR060008	20x16X14	MALBX000502	12x10x10	MALBX060008	20x16X14
MALBR001002	14x12x10	MALBR075008	20X18x14-2	MALBX001002	14x12x10	MALBX075008	20X18x14-2
MALBR001002	16x14x12	MALBR075008	20X18X14-3	MALBX001002	16x14x12	MALBX075008	20X18X14-3
MALBR005004	18x16x14	MALBR100010	20X18X14-3	MALBX005004	18x16x14	MALBX100010	20X18X14-3



MALBR002004



MALBR100010



MALBR005004

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