

RESISTIVE AC LOAD BANK LAC series

Microprocessor Based Automatic Load Regulator (ALR) Technology

Design Features:

- Safe and user-friendly remote control.
- 1 KW per step load adjustment.
- ALR regulates load to better than 1% throughout accuracy.
- Manual / ALR operation selection.
- Digital display for voltage, current, KW and frequency (optional feature).
- Data logging and computer connectivity (optional feature).



1000KW UNIT



50KW UNIT



REMOTE CONTROL PANEL

TECHNICAL SPECIFICATIONS

Load voltage	:	AC 240V 1Ph. or 415V 3Ph. 50/60Hz.
Load power	:	From 10KW to 1000KW at unity power factor.
Load resistors	:	Stainless steel finned heaters.
Load breaker	:	Equipped with load isolation main circuit breaker
Cooling method	:	Forced air cooling by fan.
Fan power	:	AC 240V 1Ph.or 415V 3Ph. 50/60Hz with connections separated from load connections
Discharging air temp.	:	Not higher than 150°C above ambient temperature at 1 meter distance from air outlet of enclosure
Control technology	:	Microprocessor based digital control for high resolution load step (1000steps for 1000KW model).
Control mode	:	Manual or optional automatic mode (ALR).
Manual control res.	:	100W per step for 10KW model. 1KW per step for 1000KW model.
Automatic control (optional feature)	:	Control resolution of +/-1KW depending on KW rating, with closed-loop control technology for long term stability and accuracy.
Safety	:	Overload, over temperature and fan failure alarm activated automatic load shut-down.
Remote control panel	:	High resolution load level programming, step-changing of load between different KW setting, load on/off, manual / ALR selection (when equipped), load on indication and fault indicator.
Instrumentation	:	Analogue voltmeter and ammeter as standard. Optional digital meters for phase voltage, phase current, KW and Hz.
Computer connectivity: (optional feature)	:	Data logging of load test result can be stored and latter downloaded to computer via RS232 interface for the preparation of test report and hard copy printout.
Indicators	:	Three phase load voltage, load connected, over temperature and fan failure.
Enclosure	:	Indoor/outdoor applicable electro-galvanized (EG) mild steel clad construction with polyester finishing according to KW rating and application.
Dimension & weight	:	Design can be tailored to meet customers' requirements.
Ambient temperature	:	0 to 40 C
Altitude	:	Below 1000 meter above sea-level.
Relative humidity	:	0 to 90% non-condensing.

Note: All data are for reference purpose only. Detail and accurate data shall be based on individual proposal.

DC LOAD BANK LBD series

Microprocessor Controlled Battery Discharger & Analyzer

Features:

- Microprocessor controlled automatic discharge procedure with digital read-out on discharge data.
- Constant current discharge.
- Reverse polarity protection.
- Low voltage automatic shut-down.
- Discharge time record meter.
- Stepless continuously variable current adjustment.
- Over-temperature protection.
- IGBT and PWM technology for compact and lightweight.
- Window based software data logging, screen view and control (Optional).

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TECHNICAL SPECIFICATIONS

Model	:	LBD 12-160V100A MC.
Auxiliary Power Supply	:	AC 240V Single Phase 50Hz/60Hz
Battery Input Voltage	:	12V to 160V
Discharge Current	:	0 to 100A
Current Stability	:	+/-1% and +/-1A
Instrumentations	:	Digital read-out for DC voltage, DC current discharge time duration and cumulative discharge Ah.
Control Technology	:	Microprocessor programming switched load control.
Current Adjustment	:	0 to 100%
Auxiliary Power Connection	:	2 meter AC cord with 13A IEC plug top
Battery Power Connection	:	Copper bar terminals with bolts and nuts supplied with a pair of 3meter length flexible DC cables and connectors.
Resistor Elements	:	Nichrome wire.
Cooling Method	:	Forced air cooling.
Ambient Temperature	:	0 to 45 degree Celcius
Relative Humidity	:	95% non-condensing
Cubicle Construction	:	Aluminium clad with epoxy coating floor stand with castors.
Cubicle Protection	:	IP 21
Dimension (mm)	:	H900 x W550 x D900 (subject to change)
Weight (kg)	:	Approximately 45

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