

100 Kilowatt Compact Portable, Resistive Load Bank

- 100 KW at 480 Volts AC, 3-phase, 60 Hertz, 120 Amps per Phase
- 100 KW at 240 Volts AC, 3-phase, 60 Hertz, 240 Amps per Phase
- 75 KW at 208 Volts AC, 3-phase, 60 Hertz, 208 Amps per Phase
- 5 KW minimum load step resolution provided
- Lightweight Design



Duty Cycle: Forced Air-Cooled, rated for continuous operation.

Power Factor: 1.0

Cooling System: Integrally mounted high-performance / high-velocity cooling fans deliver the required airflow volume for cooling resistor load elements.

Control and Blower Power: External 120 Volt AC, 1-phase, 10 Amp source. A 15' detachable line cord is provided.

Local Operator Control Panel Including: Main Power On/Off switch, Load Voltage selector switch (208-240, Center-OFF, 440-480), Master Load On/Off switch, and Individual Load Step switches (KW On/Off) provided for each load step. *Illuminated indicators provided for Power On, Over-Temperature/Airflow failure, and Wrong Voltage Applied.*

[M] Digital Power Meter: Fully equipped, 3-phase Digital Metering System that measures a standard range of 16 load parameters. Includes RS485 (Modbus protocol) for remote reading - compatible with PC, PLC, and data loggers. See additional details at: <http://www.multitek-ltd.com/meters/M850.aspx>

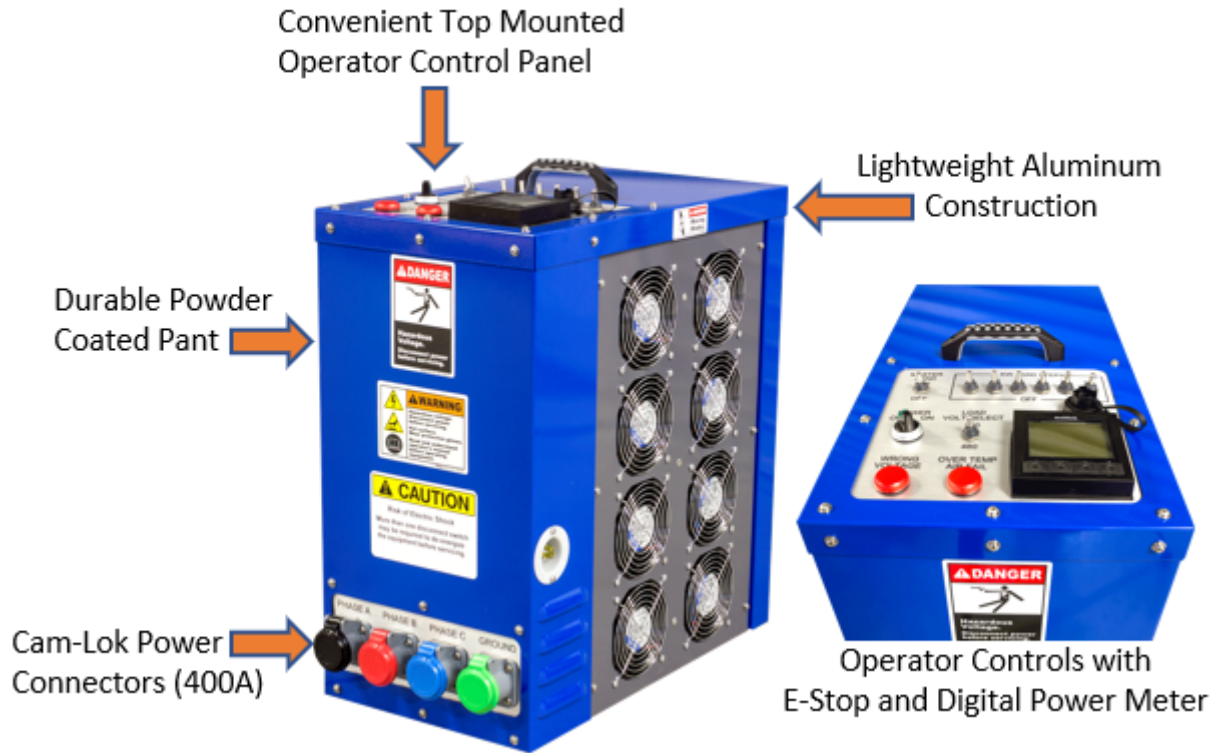
Operator Protection and Safety Features

- Operator control panel provides detection and display of Main Power On, Over-Temperature / Airflow failure, and Wrong Voltage Applied.
- Branch circuit fuse protection provides short-circuit fault protection of load steps. Fuses are fast-acting, current-limiting type with an interrupting rating of 200K A.I.C.
- Control Power Circuits and Blower Motors are short-circuit protected by current-limiting fuse.
- An Over-Temperature / Airflow failure detection circuit is provided to monitor load bank exhaust temperature and verify cooling fans are energized. Overtemperature switches automatically remove all load if an over-temperature condition is detected. Load cannot be reapplied until the over-temperature condition is corrected.
- An operator wrong voltage protection circuit is provided to prevent application of load if 480 VAC is detected with the Load Voltage selector switch in the 240 VAC position.
- Operator warning and caution statements are located on appropriate access panels.

-PowerDyne™ Resistor Load Elements provide the necessary KW load rating for each load step. Change in resistance is minimized by maintaining conservative, thermally derated resistor designs and by utilizing a high-quality nickel chrome alloy. Tolerance is 5%.

Construction: The load bank is constructed of aluminum and galvanized steel with powder coat paint finish, and is designed for operation indoors on a flat, level surface with sufficient volume of fresh intake air available. Cooling airflow is drawn from the screened air-intake side, with hot air exhausted from opposite side of the unit away from personnel. The exhaust should be positioned to minimize hot air recirculation into the load bank air-intake.

Quick-Connect-Disconnect of customer load cable provided by fully rated "*industry exclusive*" Cam-Lok power connectors. Connectors are color-coded for safe and easy phase identification. Protective snap-back covers provide added safety during storage and operation.



Model	Approximate Dimensions	Approximate Weight
LC100-240-480-5M-V2	14" Wide x 25" High x 24" Deep [355 x 635 x 610 mm]	89 pounds [40 kg]

Available Options

Equipment Protection

Load Bank Road Case: Rugged Transport Case with Black PVC Laminate sides, protective aluminum edges and steel ball corners, recessed handles, foam lined, with 4" heavy-duty casters. Top lifts off for easy load bank operation.



Complete 3-phase Power Cable sets:

(4) x 2/0 AWG load cables, (1 per phase, 1 ground). Black-Red-Blue-Green, color-coded for safe and easy phase identification. Equipped with Cam-Lok female power connector on one end for quick connectivity, other end is single hole tinned 1/2" compression lug.

