
105 Kilowatt Compact Portable, Resistive Load Bank with the following ratings:

- 105 KW at 480 Volts AC, 3-phase, 60 Hertz, 126 Amps per Phase
- 102.5 KW at 240 Volts AC, 3-phase, 60 Hertz, 247 Amps per Phase
- 76.8 KW at 208 Volts AC, 3-phase, 60 Hertz, 213 Amps per Phase
- 5 KW minimum load step resolution provided



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 has two folding pull handles for easy lifting and positioning. The top corners have heavy duty corner guards that protect the enclosure from side impacts. The unit 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.

Casters: Durable, quiet, swivel casters come *standard*

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.

Load Steps and Capacities:

Three Phase

	480 volt, 3PH, Unity PF		240 volt, 3PH, Unity PF		208 volt, 3PH, Unity PF	
	KW capacity	Amperage	KW capacity	Amperage	KW capacity	Amperage
Load Step 1	5	6.01	3.75	9.02	2.8	7.77
Load Step 2	5	6.01	3.75	9.02	2.8	7.77
Load Step 3	10	12.03	10	24.06	7.5	20.82
Load Step 4	15	18.04	15	36.08	11.25	31.23
Load Step 5	35	42.10	35	84.20	26.25	72.86
Load Step 6	35	42.10	35	84.20	26.25	72.86
Total Capacity	105	126.30	102.5	246.58	76.85	213.31

Single Phase

	240 volt, 1PH, Unity PF		208 volt, 1PH, Unity PF		120 volt, 1PH, Unity PF	
	KW capacity	Amperage	KW capacity	Amperage	KW capacity	Amperage
Load Step 1	1.875	7.81	1.40	6.73	0.47	3.91
Load Step 2	1.875	7.81	1.4	6.73	0.47	3.91
Load Step 3	5	20.83	3.75	18.03	1.25	10.42
Load Step 4	7.5	31.25	5.625	27.04	1.88	15.63
Load Step 5	17.5	72.92	13.125	63.10	4.38	36.46
Load Step 6	17.5	72.92	13.125	63.10	4.38	36.46
Total Capacity	51.25	213.54	38.43	184.74	12.81	106.77

Approximate Weight: 115 pounds [66 kg]

Approximate Dimensions: 19" Wide x 31" High x 29" Deep [483 x 965 x 737 mm]