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MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1

2.5 MVA Programmable Load Bank (Resistive and Inductive) - 480 x 13800VAC x 800VDC Rated, 3-Phase, 60 Hz, Pad Mount, NEMA 3, RAL7035, W/ Air Duct

Product ID: 330821



Image: MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1 Programmable Load Bank

Unit Type: Programmable Load Bank, Resistive/Inductive
Load Element: Alloy Resistors and Inductors
Rated Voltage: 0.48 x 13.8kV AC, 3P3W x 800V DC (+400/Center/-100)
Nominal Frequency: 60 Hz
Rated Power: 2.5 MVA (Resistive Load: 2000KW; Inductive Load: 1500KVAR)
Load Steps: Resistive Steps: 500kW, 500kW, 500kW, 500kW
Inductive Steps: 500kVar, 500kVar, 500kVar
Electrical Clearance: ≥ 5.9 inches
Insulation Class: F
Measurement Accuracy: 0.5
Operating Condition: Continuous
Power Factor: 1.0 for resistive load, 0.8-1.0 for RL load (Adjustable)
Load Accuracy: < ±5%
Three-phase Unbalance: ≤ ±3%
Parameter Display: Display parameters such as three-phase voltage, three-phase current, active power, reactive power, apparent power, power factor, frequency, etc.
Auxiliary Power Supply: External power supply: 3P5W AC480V/60Hz
Cooling Mode: Forced air cooling, air in from the side and out from the top
Air inlet and outlet requirements: It is required that there is no obstacles 3 meters from the air inlet, and theair outlet is more than 3 meters away from the ceiling or other obstacles
Control Mode: Local Control: manually control via control panel, Remote control: via laptop

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 1008
NRTL Listed to UL 98
Outdoor Type
Made in the USA

Features

Compact load bank unit with user friendly control panel.
Effectively applied for full load test of generator set, UPS and other AC power systems.
Sectionalized control of input power enables any customized setting of load step and time
Real-time display of test current, voltage, power, power factor, time and frequency.
Alternative control modes by local control of circuit breaker/push button or PC control
Emergency stop button for quick termination of AC load test
Protection upon over load, over voltage, over temperature,

Controller Interface: Siemens 200 Smart series

Internal Links: Included for each voltage rating

Continuously Variable Load Input: Can be identified through the controller (Ramping up/down the load in a specific time)
Resistive Load Elements: The resistive load module is made up of a number of high-temperature-resistant special alloy stainless steel resistors. The resistance wires are high temperature resistance, stable electrical performance, low temperature drift coefficient, the shell material is stainless steel. Its insulation performance is good, the heat dissipation performance is high, the heat conduction is uniform, the operating temperature is only 1/3 of the design temperature, the temperature drift is small, the resistance value is stable, there is no heat treatment hardening phenomenon, and the resistance temperature and power are reserved for 3 times the margin
Inductive Load Elements: The high-voltage AC reactive load is used as a simulated reactive load, and in conjunction with a resistive load, it can simulate various operating conditions of the equipment and complete the performance test of the power system and the generator set. The load test system has a variety of control modes to meet the different requirements of the tests.
Protection Function: Short circuit, fan pressure low, fan overload, smoke alarm, high temperature fault (temperature adjustable), E-Stop, etc
Parameter Display: Display parameters such as three-phase voltage, three-phase current, active power, reactive power, apparent power, power factor, frequency, etc.

Air Duct: Included

Handling: Forklift and Lifting rings for easy transportation
Wheels: N/A
Transportation and Seismic Design: There are load-bearing hoisting holes on top, which meet the hoisting andtransportation requirements, and the load-bearing capacity is more than 3times of the load bank weight.

Atmospheric Pressure: 15.95 PSI

Operating Temperature: -20°C to +45°C
Humidity: ≤ 95%
Altitude: ≤ 3,300ft

Noise: 85 dBA (16.4ft from the load bank)

Protection Level: NEMA 3 when in store condition; there are protective doors at the air inletswhich will be opened when working, NEMA 1 when working

Enclosure Structure: Containerized type with ladder to go up to the top

Enclosure Finish: RAL7035
Mount: Pad Mount
Dimensions: 394"-L x 96"-W x 102"-H
Weight: 26,455.47 Lbs
Shipping Dimensions: TBD
Shipping Weight: TBD
Larson Electronics manufactures a wide variety of custom power distribution systems. The pictures displayed for this unit are a general representation of form factor and may not accurately represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the specification table and one-line diagram.

short circuit and so on
It adopts latest load element with high density power, safer and more durable
Axial flow fans with big blast capacity for quick ventilation with low noise

Special Orders - Special Requirements
Contact us for special requirements
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All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Made in the USA

The Larson Electronics MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1 Programmable Load Bank is essential for maintenance to ensure your generator performs to the required engine wattage. Normally a generator runs at a level less than its rated output; therefore a load bank test provides an artificial load to ensure the generator is running at the correct wattage if needed.

The MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1 Programmable load bank provides a safe and reliable way for operators in industrial settings to test generators' wattage. Compatible with three-phase 13800V AC, the PLB features a minimum load step resolution. This 3-phase load bank carries 2.5 MVA at 480 x 13800V AC x 800V DC operating voltage.

Operation: The MPD-PLB-2.5MVA-480.13800VAC.800VDC-60HZ-PM-N3-M1 features a locking door. The door provides access to a permanently attached operating handle.

Enclosure Design: This Programmable load bank is a compartmental design. The housing is fabricated from steel. The front electrical enclosure carries a NEMA 3 rating. Two hinged exterior doors allow for access into the compartments. A steel plate allows for underground conduit entry into the enclosure compartments. A removable steel plate at the base of the power compartment prevents rodents and other intrusions from entering the enclosure once installed. Four removable caster wheels are installed in Load bank base to enable easy move.

Certification: This PLB is NRTL listed to UL 98 and UL 1008, as well as NRTL listed for service equipment.

Mount: Pad mount capable

Applications: This Load bank has a wide variety of applications such as: Generator servicing, generating set exercising and / or testing, keeping generating set above minimum loading (load shedding), battery discharge and UPS systems exercising, and /or testing to reduce ‘Wet Stacking’ problems and ground power testing.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs