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MPD-PLB-100KVA-480V-60HZ-TM-N1-M1

100 KVA Portable Load Bank (Inductive) - 480V Rated, 3-Phase, 60 Hz, Trailer Mount Capable, NEMA 1, Yellow and black, W/O Air Duct

Product ID: 338529

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MPD-PLB-100KVA-480V-60HZ-TM-N1-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-100KVA-480V-60HZ-TM-N1-M1 Portable Load Bank

Unit Type: Portable Load Bank, Inductive
Load Element: Inductors
Load Voltage: 480V AC, Wye Connection, 3Ph, 4 Wire
Nominal Frequency: 60 Hz
Rated Power: 100 KVA Continuous Duty
Load Steps: 5KVAR, 5KVAR, 5KVAR, 5KVAR, 10KVAR, 10KVAR, 10KVAR, 10KVAR, 20KVAR, 20KVAR
Insulation Class: F
Operating Condition: Continuous
Power Factor: 0.5 to 0.8 for RL load
Load Accuracy: ±5%
Sampling Accuracy: 0.5 class
Display Type: Touchscreen HMI for operation, settings, configuration
Display Parameters: Voltage, current, active power, reactive power, apparent power, power factor, frequency, etc
Wire Connection: Copper bar (L1, L2, L3 and N)
Cooling Mode: Force-air cooling, air entry from bottom and outlet to the top, external power

Ratings

NRTL Listed Service Equipment
NRTL Listed to UL 1008
NRTL Listed to UL 98
Indoor 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.
Emergency stop button for quick termination of AC load test
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

supply

Cooling Auxiliary Power: 480V, 60Hz

Cooling Air Flow: ≥ 120 m³/min

Cooling Fan Speed: ≥ 1200 rpm

Control Mode: PC software remote control with RS485 connection with load bank/Manual operation via touchscreen, Manual power adjustment (up/down)
Resistive Load Elements: N/A
Inductive Load Elements: Composed of multiple groups of solid-state dry-type reactors. The iron core is made of high-quality low-loss cold-rolled silicon steel sheet. The air gap is spaced by epoxy laminated glass cloth to ensure that the reactor air gap is operating No changes occur during the process. Reactor core part fasteners use non-magnetic materials to reduce eddy current heating during operation
Protection Function:
Over-voltage protection: When input voltage exceeds the safety threshold, it will automatically unload and alarm.
Over-current protection: When load main circuit current exceeds the safety threshold, automatically unloaded and protected.
Over-temperature protection: When temperature exceeds the safety threshold, it will automatically unload and alarm
Fan under-volume protection: When any fan fails to operate normally, it will automatically unload and alarm
Fan power phase protection: When fan power phase sequence is wrong, the fan cannot be started and load will not work
Emergency stop button: Manually unloaded by one button, and it cannot be loaded in the state of emergency stop lock.
Phase Sequence Indication: Included

Input Power Cable (Dummy Load):

3-phase 4-wire, 164ft each phase

Single-core super-flex #2 AWG or 1/0 AWG copper

Flexible rubber insulated, XLPE, NBR jacket

Extra flexible copper (Class 5/6)

Anti–rat-bite protective shield

Connection to Unit Under Test:

3-phase 4-wire, 984ft × 4 pcs with lugs

Same specification as input cable

Power Connection: Copper busbars

Auxiliary Connection: Terminal blocks

Cable Entry: Gland protected from water leakage

Transient Testing: Capable

Standard Parts: AC power cord and RS485-USB cable

Air Duct: N/A

Handling: Trailer mounted

Wheels: Included, (4) heavy-duty, w/ Braking

Accessories: Lunette ring/eye for towing

Operating Atmospheric Pressure: 86 - 106kPa

Operating Temperature: -50°C to +55°C

Humidity: ≤ 95%, (non-condensing)

Altitude: ≤ 8,200ft

Protection Level: IP44 when in storage, IP20 during operation. This is an outdoor type and can be placed outdoors. However, it cannot be tested on rainy days. If a test on rainy days is

breaker/push button or PC control

Axial flow fans with big blast capacity for quick ventilation with low noise

It adopts latest load element with high density power, safer and more durable

Protection upon over load, over voltage, over temperature, short circuit and so on

required, air duct installation is needed.
Enclosure Finish: Yellow and black
Enclosure Type: NEMA 1, Single galvanized steel sheet
Mount: Mobile trolley, Capacity: 4–5 tons (dummy load), 3–4 tons (cable trolley)
Dimensions: 63"-L x 63"-W x 78.74"-H
Weight: 1,323 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.

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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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-100KVA-480V-60HZ-TM-N1-M1 Portable 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-100KVA-480V-60HZ-TM-N1-M1 portable load bank provides a safe and reliable way for operators in industrial settings to test generators' wattage. Compatible with 480V AC, 60 Hz, three-phase power systems, the PLB features inductive load testing capabilities with precise load step control. This 3-phase load bank carries 100 KVA continuous duty capacity at 480V AC operating voltage.

Operation: The MPD-PLB-100KVA-480V-60HZ-TM-N1-M1 features a locking door. The door provides access to a permanently attached operating handle.

Enclosure Design: This portable load bank is a compartmental design. The housing is fabricated from steel. The front electrical enclosure carries a NEMA 1 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 the load bank base to enable easy movement.

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

Mount: Ground/Trailer 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

Export Control Classification Number (ECCN): EAR99

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