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MPD-PLB-1MVA-480Y.277V-60HZ-N4X-M2

1 MVA Portable Load Bank (Resistive) - 480Y/277V Rated, 3-Phase, 3-Wire, 60 Hz, Caster Wheels, NEMA 4X, Yellow and Black, W/ Air Duct, W/ SCADA Capability

Product ID: 321757

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



Image: MPD-PLB-1MVA-480Y.277V-60HZ-N4X-M2

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-1MVA-480Y.277V-60HZ-N4X-M2 Portable Load Bank

Unit Type: Portable Load Bank, Resistive
Load Element: Alloy Resistors
Load Voltage: 480Y/277V AC, 3Ph, 3 Wire
Nominal Frequency: 60 Hz
Rated Power: 1 MVA (1000 KW Resistive Load), Continuous Duty
Load Steps: 3 phase synchronous: 1, 2, 2, 5, 10, 20, 20, 40, 50*4, 100*3, 200KW*2
Insulation Class: F
Power Factor: 1.0
Load Accuracy: ±5%

Load Resolution: 1KW

Display: Real time display of voltage, current, power, frequency and other parameters

Display Type: Touch Screen

PLC Connection Capability: Included

Wire Connection: L1, L2, L3 and N

Cooling Mode: Forced air cooling, air entry from side and outlet to the top

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,

Air Flow: 28,500 CFM, Vertical Direction

Temperature Rise: 48.89°C

Max. Air Intake Temperature: 93.33°C
Power Supply: AC480V, 60Hz
Way of Control: 3 optional ways of control mode:
1- Local manual control with circuit breaker
2- Optional control via local touchscreen tablet
3- PC software remote control with RS485 connection with load bank
Resistive Load Elements: Composed of multiple special alloy resistors in parallel. The outer part of the alloy resistor is made of 304 stainless steel sheet as the heat-dissipating material, the outer tube is made of 304 stainless steel tube as anti-rust and anti-corrosion component. The inside is filled with the Magnesium Oxide powder which is thermal conductive and insulating medium, and the power consumption component Nickel-Chromium alloy resistor is packaged therein
Protection: Emergent stop button, over temperature alarm and over temperature/over voltage protection
Standard Parts: AC power cord and RS485-USB cable
Air Duct: Included
Handling: With forklift position, with casters at bottom
Wheels: Included
Operating Atmospheric Pressure: 86 - 106kPa
Operating Temperature: -10°C to +50°C
Humidity: 5-90%
Altitude: ≤ 8,200ft
Noise Level: 75 dbA
Protection Level: IP56 when storage, IP20 during operation. This is outdoor type and can be placed outdoors. However, it cannot be tested on rainy days. If test on rainy days is required, air duct installation is needed.
Enclosure Finish: Yellow and black
Enclosure Type: NEMA 4X, 316L Stainless Steel
Mount: On Caster Wheels
Dimensions: 94.49"-D x 79.92"-W x 86.61"-H
Weight: 4960.4 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
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-1MVA-480Y.277V-60HZ-N4X-M2 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-1MVA-480Y.277V-60HZ-N4X-M2 portable load bank provides a safe and reliable way for operators in industrial settings to test generators' wattage. Compatible with

three-phase 480V AC, the PLB features 1000 KW minimum load step resolution. This 3-phase load bank carries a 1000 KVA at 480V AC operating voltage.

Operation: The MPD-PLB-1MVA-480Y.277V-60HZ-N4X-M2 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 316L stainless steel. The front electrical enclosure carries a NEMA 4X 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: Mounted on wheels

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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- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/321757.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
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