Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

**MPD-PLB-600KVA-480V-60HZ-TM-N3R-M3**

# 600 KVA Portable Load Bank - 480V Rated, 3-Phase/1-Phase, 60 Hz, Trailer Mount Capable, NEMA 3R, Yellow and black, Local Manual Control Mode, W/ Air Duct

**Product ID: 317527**



**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-600KVA-480V-60HZ-TM-N3R-M3 Portable Load Bank**

**Unit Type: Portable Load Bank, Resistive**
**Load Element: Alloy Resistors**
**Load Voltage: 480V AC, Wye Connection, 3Ph, 4 Wire / 240V AC, 1-Ph**
**Nominal Frequency: 60 Hz**
**Rated Power: 600 KVA (600 KW Resistive Load), Continuous Duty, (Range of 10KW-600KW adjustable)**
**Load Resolution:** 10 KW
**Load Accuracy: ± 5%**
**Power Supply:** Included, Single phase AC120V/60Hz
**Control Mode:** Local manual control with circuit breakers or push buttons
**Insulation Class: F**
**Operating Condition: Continuous**
**Power Factor: 1.0**
**Display:** LCD Screen displays real time display of voltage, current, power, frequency and other parameters
**Wire Connection:** Copper bar (L1, L2, L3 and N)
**Cooling Mode: Forced air cooling, air entry from one side and outlet to the other side, 480V Rated, 3Ph**
**Protection:** Emergency stop button, over temperature alarm, Overcurrent, Positive airflow sensor and over temperature/over voltage protection
**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**
**Cam-Lock Connectors:** Included, 400A, Color Coded, 3Ph 4 W

**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.
It adopts latest load element with high density power, safer and more durable
Emergency stop button for quick termination of AC load

**Generator Load Sensing Module (GLS):** Included

**Air Duct:** Included, Top Air Duct

**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.**

**Standard Parts: Load bank, AC power cord and RS485-USB cable (if with PC remote control), Optional parts: load cable with customized length**

**Wheels: N/A**

**Fans Noise:** 75 dBA

**Operating Temperature: -10°C to +50°C**

**Relative Humidity: 5-90%**

**Altitude: 2500m**

**Mobility:** With forklift position, with casters at bottom

**Protection Level: 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. Air duct is optional in this proposal.**

**Enclosure Material:** Heavy-duty steel

**Enclosure Finish:** Yellow and black, Resistant powder coating

**Mount: Ground/Trailer Mount Capable**

**Dimensions: 59"-L x 57.1"-W x 70.9"-H**

**Weight: 2,204 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.

test

Control mode by local control of circuit breaker/push button

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

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

**Special Orders - Special Requirements**

Contact us for special requirements

**Toll Free: 1-800-369-6671**

**Intl: 1-903-270-1187**

**Fax: 1-903-498-3364**

**E-mail: sales@larsonelectronics.com**

*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-600KVA-480V-60HZ-TM-N3R-M3 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-600KVA-480V-60HZ-TM-N3R-M3 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 600 KVA (600 KW) minimum load step resolution. This 3-phase load bank carries a 600 KVA at 480V AC rated voltage.

**Operation:** The MPD-PLB-600KVA-480V-60HZ-TM-N3R-M3 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 3R 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:** 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.

# Frequently Asked Questions (FAQ)