Larson Electronics LLC
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MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1

125A Power Panelboard, 3PH Main Breaker Panel, 12 Circuit, 480Y/277 (12) 20A 1P Breakers, NEMA 3R, Top Feed, Wall Mount

Product ID: 324680



Image: MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-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-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10 - Electrical Panel, Lighting Panelboard

Item Type: Deadfront Lighting Panelboard
Panel Type: Main Breaker Panel (MCB)
System Voltage (V): 480Y/277 AC Wye-N
Phase (PH): 3-Phase (3PH)
Frequency (HZ): 60 Hz (60-cycles)
System Amperage: 125A
Line-In Connection: (3) Terminal Lugs
Line-In Orientation: Top Feed
Mains Capacity: 125 Amps
Main Breaker Size: 150AF
Main Breaker Type: Molded Case Circuit Breaker (MCCB)
Main Breaker Short Circuit Current Rating (SCCR) : 35 kAIC
Circuit Count: (12 Ckt Total - (12) Circuit MCB
Branch Breakers: (12) 20A 1-Pole Breakers, MCB, 10 kAIC, Din Rail Mount;
Branch Breaker Size: 35mm Din Rail Mount Breakers; (Not compatible with Ground Fault Indicator Breakers)
Branch Breaker Type: Miniature Circuit Breaker (MCB), UL 1077, Not Compatible w/ GFCI Din Rail Breakers
Branch Breaker Short Circuit Current Rating (SCCR): 10 kAIC
Neutral Connection: Insulated Neutral Bar Kit Included
Ground Connection: Ground Bar Kit Included
Line-In Connection: Breaker Outputs
Line-In Orientation: Top, Side Knockouts
Feed Thru Capacity: Not Capable of Feed Thru Line-Outs
Mount: Wall Mounted

Ratings

Max Primary OCP: 125A @ 480V
NEMA 3R Rated Indoor/Outdoor Use
NRTL Certified to UL 1640
NRTL Certified to UL 508A

Made in the USA

Enclosure Door: (1) Left Hinged Door w/ Handle
Enclosure Rating: NEMA 3R
Enclosure Material: CNC formed carbon sheet steel
Bus Material: Tin Plated Copper
Finish Color: ANSI 70 Light Grey
Finish Type: High-strength TGIC Polyester Powder Coated
Dimensions: 15" H x 14.25" W x 4" D
Weight: 55 lbs
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
Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
Fax: 1-903-765-7664
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

This unit is Made In USA - Manufactured in Texas

The Larson Electronics MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1 Power Distribution Main Breaker Lighting Panelboard facilitates electrical and power connections in industrial sites. This unit provides operators the ability to safely tap into and distribute three phase 480Y/277 AC power from a variety of sources including generators and direct grid power.

Operation:

• Voltage: 3-Phase 480Y/277 AC 3PH Wye-N

• Panel: 125A MB Hinged 12 Circuit Count

• Branch Breaker(s): (12) 20A 1-Pole Breakers, MCB, 10 kAIC, Din Rail Mount;; Compatible with Larson Electronics Din Rail Mount Breakers. Not compatible with GFCI Style Breakers.

• Enclosure: NEMA 3R for Indoor and Outdoor Applications, Top Feed

Panelboard: The MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1 power distribution Lighting panelboard unit gives operators the ability to power and protect their MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1 volt equipment. On the primary side, operators connect three-phase 480Y/277 volt line-in power using a customer-provided cord or line-in conduit. This panelboard distributes power from an electrical feed to various branch circuits. Breaker poles, breaker amperage, circuit count, mains protection, and branch breaker layout can be customized upon request.

Main Breaker Panel vs Main Lug Only Panel: Panelboards are available with a main circuit breaker or as main lug only (MLO). A main circuit breaker provides overcurrent protection and serves as the primary unit serving all branch circuits and controls within the panel. This type of panel offers a single disconnection method for connected loads. A MLO panel typically serves as an add-on or sub panel, which is connected to a main breaker panel. A MLO panel does not have overcurrent protection or devices.

Enclosure: The MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1 is constructed from CNC formed carbon sheet steel and has High-strength TGIC Polyester Powder Coated coating in ANSI 70 Light Grey finish. This panelboard features a Top feed for running input conduit and Side Knockouts. This pannelboard is for main panel or sub panel configurations. This panelboard does not provide bus output connections for subpanels. .

*See specification table at the top of the page for more information about the the panel system.

Protective Construction: The power distribution panel is protected from the elements via a steel weatherproof enclosure with drip shield. Equipped with a hinged locking door, the panelboard carries a NEMA 3R rating for use in indoor or outdoor locations and protection from water, debris, corrosion, and external ice formation. This enclosure provides protection against falling rain and light ice formation. The NEMA 3R rated enclosure prevents beating rain from interfering with the successful operation of the apparatus or result in wetting of live parts and wiring within the enclosure under specified conditions. This unit is compatible with wall mounting installations.

This power distribution panel can be modified to meet the needs of job-site breaker requirements. Portable units are available upon request and can be equipped with receptacles, carts, skids or trailer mount.

Certification: All units are built in accordance to NFPA 70 (National Electric Code), NEMA PB1 and NRTL certified to UL 1640.

Grounding: The panel is grounded to the frame and we provide a grounding lug on the frame for the earth ground.
~Please check all motor loads for dual rated motors that will work 208 or 240.~

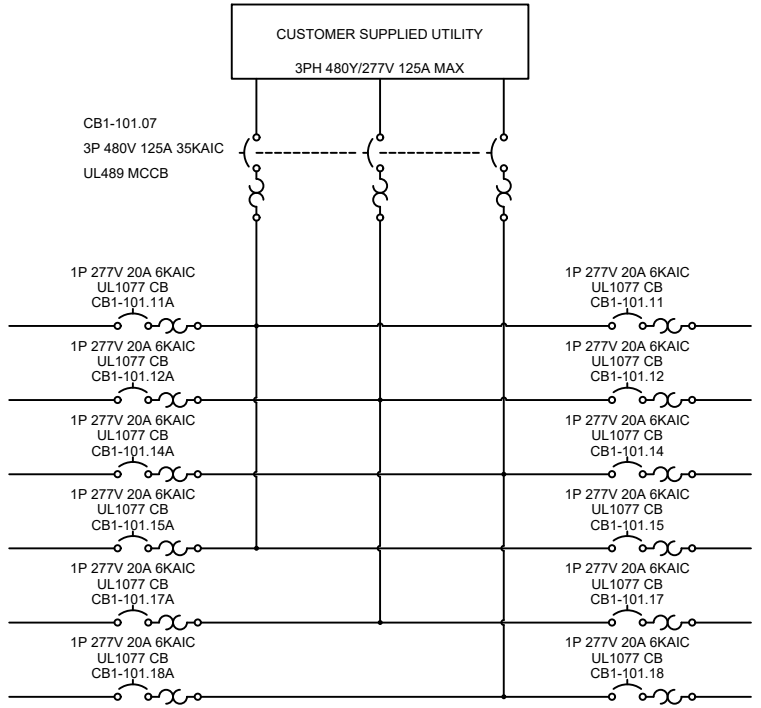
Applications: This power distribution system is ideal for indoor or outdoor use and applications including but not limited to, construction sites, plant maintenance, plant turnarounds, shows, exhibits, and shipyard operations. These power distribution systems are popularly used in applications where external power sources are often necessary. We also offer class rated transformers for use within explosion proof and hazardous location environments.

Custom Built Systems Available: Larson Electronics is a manufacturer and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	10-29-2025

MPD-PB-LB-MB-YE-H-L-12-TF-N3R-12.S10-M1

LARSON ELECTRONICS®





TAGS	QTY	CATALOG	DESCRIPTION
CB1-101.11 CB1-101.11A CB1-101.12 CB1-101.12A CB1-101.14 CB1-101.14A CB1-101.15 CB1-101.15A CB1-101.17 CB1-101.17A CB1-101.18 CB1-101.18A	12	UNV00015144	1P 20A 120/240V 10KAIC UL1077 MINIATURE CIRCUIT BREAKER
CB1-101.07	1	UNV00015184	3P 480V/240V 125A 65/35KAIC UL489 MOLDED CASE CIRCUIT BREAKER
NEUTRAL BAR	1	UNV00021861	200A Insulated Groundable Neutral Bar Kit, Main Conductor Size 4AWG - 300KCMIL
GROUND BAR	1	UNV00013942C	GROUND BAR KIT 14 AWG TO 4 AWG

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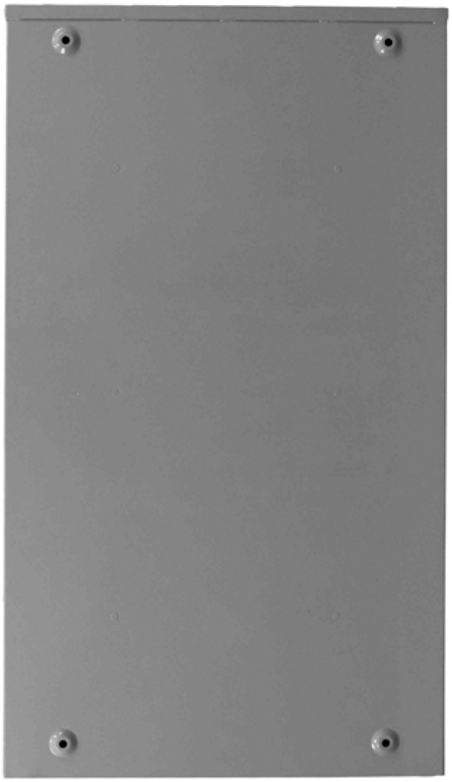

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Frequently Asked Questions (FAQ)

There are no Faqs