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MPD-PB-RA-MB-YE-B-CGJ-84-BF-N1-M1

2000A Power Panelboard, 3PH Main Breaker Panel, 84 Circuit, 480Y/277, (14) 100A 3P Breakers, NEMA 1, Wall Mount

Product ID: 309449

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



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.

This unit is Made In USA - Manufactured in Texas

MPD-PB-RA-MB-YE-B-CGJ-84-BF-N1-M1 - Electrical Panel

Item Type: Deadfront Power Distribution Panelboard

Panel Type: Main Breaker Panel (MCB)

System Voltage (V): 480Y/277 AC Wye
Phase (PH): 3-Phase (3PH)
Frequency (HZ): 60 Hz (60-cycles)
System Amperage: 2000A
Line-In Connection: (3) Terminal Lugs, Accepts 3/0-500 kcmil
Line-In Orientation: Bottom Feed
Mains Capacity: 2000 Amps
Main Breaker Size: 1200AF
Main Breaker Type: Molded Case Circuit Breaker (MCCB)
Main Breaker Short Circuit Current Rating (SCCR) : 65 kAIC
Circuit Count: 84 Ckt: (6) Circuits 800AF, (12) Circuits 150AF, (66) Circuits 100AF
Branch Breakers: (1) 700 Amp 3-Pole MCCB [480V], (1) 135 Amp 3-Pole MCCB [480V], (1) 50 Amp 3-Pole MCCB [480V], (2) 45 Amp 3-Pole MCCB [480V], (2) 40 Amp 3-Pole MCCB [480V], (1) 35 Amp 3-Pole MCCB [480V], (1) 20 Amp 3-Pole MCCB [480V], (5) 15 Amp 3-Pole MCCB [480V]
Branch Breaker Size: 700A 3P Breaker: 800AF; 135A 3P Breaker: 150AF; 50A 3P Breaker: 100AF; 45A 3P Breaker: 100AF; 40A 3P Breaker: 100AF; 35A 3P Breaker: 100AF; 20A 3P Breaker: 100AF; 15A 3P Breaker: 100AF
Branch Breaker Type: Molded Case Circuit Breaker (MCCB)
Branch Breaker Short Circuit Current Rating (SCCR): 35 kAIC
Neutral Connection: Insulated Neutral Bar Kit Included

Ratings

Max Primary OCP: 600A @ 480V

Made in the USA
NRTL Certified to UL 1640
NEMA 1 Rated Indoor Use
Service Entrance Equipment Rated

Ground Connection: Ground Bar Kit Included
Line-In Connection: Breaker Outputs
Line-In Orientation: Bottom, Side Knockouts
Mount: Wall Mounted
Enclosure Door: (1) Left Hinged Door w/ Handle
Enclosure Rating: Indoor and Outdoor applications with regular exposure to chemicals, heavy water, or salt water.
Enclosure Material: 304 Stainless Steel
Bus Material: Tin Coated Copper
Finish Color: ANSI 70 Light Grey
Finish Type: High-strength TGIC Polyester Powder Coated
Dimensions: -
Weight: -

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

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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

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The Larson Electronics MPD-PB-RA-MB-YE-B-CGJ-84-BF-N1-M1 Power Distribution Main Breaker 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.

Panelboard: The MPD-PB-RA-MB-YE-B-CGJ-84-BF-N1-M1 power distribution unit gives operators the ability to power their 480Y/277 volt equipment from a single system. On the primary side, operators connect three-phase 480Y/277 volt line-in power using a customer-provided cord. This panelboard distributes power from an electrical feed to various branch circuits. Models with breakers offer circuit protection.

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.

Operation:

- Voltage: 3-Phase 480Y/277 AC 3PH
- Panel: 2000A Main Breaker, Hinged, 84Ckt, N3R
- Branch Breaker(s): (1) 700A 3P [480V], (1) 135A 3P [480V], (1) 50A 3P [480V] , (2) 45A 3P [480V], (2) 40A 3P [480V], (1) 35A 3P [480V], (1) 20A 3P [480V], (5) 15A 3P [480V] Branch Breakers; Compatible with Larson Electronics 800AF, 150AF, 100AF Size Branch Breakers

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

Protective Construction: The power distribution panel is protected from the elements in harsh environments via a 304 stainless steel and weatherproof enclosure with drip shield. Equipped with a gasketed hinged locking door, the panelboard carries a NEMA 1 rating for use in indoor or outdoor locations and protection from water, debris, corrosion, chemicals, and external ice formation. This enclosure provides protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, salt water, chemical wash down, and hose-directed water. The NEMA 1 rated enclosure provides protection from harsh element exposure including ice formation, salt spray, sulfates, and chlorine 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 solution can be modified to meet the needs of job-site receptacle requirements. Larger units are available upon request and can be

equipped with 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. NEMA 4 and NEMA 4X equipment can be equipped upon request.
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.

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Frequently Asked Questions (FAQ)



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Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map