

MPD-EB42-TL.400AB-YE0-6.T48-N3R-M1

Power Distribution Panel, 480Y/277 3PH, 400A MLO Panel, (6) 200A 3P Breakers, NEMA 3R, 18 Circuit

Product ID: 292398



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-EB42-TL.400AB-YE0-6.T48-N3R-M1 Power Distribution Panel

Line-in Cord: Not Included - Requires Minimum Use Wiring 400A Rated Cu @ [600V]
(**Customer Provided**)

Line-in Cord Cap: Not Included - Requires Minimum Use Service Device 400A @ [480Y/277V] (**Customer Provided**)

Primary Voltage: 480/277V AC Wye

Primary Phase: 3-Phase (3PH)

Primary Frequency: 60 Hz (60-cycles)

Panel: 480Y/277V 3PH 400A MLO Hinged 12Ckt. N3R

Primary Breakers: (6) 200A 2P MCCB [480V]

Primary Protection: MCCB Circuit Breakers

Transformer: N/A

Circuits: 18

Feed Type: Bottom

Top Entry: -

Interrupting Rating: 14

Operating Temperature: 40°C

Materials: Steel, Copper

Bus Material: Copper

Ground Bar Material: Aluminum (Bolted)

Panel Finish: High-Strength TGIC Polyester Powder Coated Blue

Form Factor: Blue Powder Coated NEMA 3R Side Hinged Electrical Panel

Input Wire Size: -

Internal Dimensions: -

Weight: -

Mounting: Surface Mount

Ratings

Max Primary OCP: 400A @ 480V

NEMA 3R Indoor or Outdoor Use

Left Side Hinged Door

Made in the USA

Powder Coat Finish Standards:

Complies with ASTM D-522

Complies with ASTM D-3363

Complies with ASTM D-2794

Complies with ASTM D-523

Complies with ASTM D-3359

Special Orders - Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-214-616-6180

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

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.

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

The MPD-EB42-TL.400AB-YE0-6.T48-N3R-M1 from Larson Electronics is a Power Distribution Panel that is designed for reliable, safe, and convenient power distribution at industrial work sites. This 400-amp unit provides three-phase 480/277V AC Wye via a main lug only panel. The power distribution panel provides operators the ability to safely tap into and distribute 480/277V AC Wye power from a variety of sources including generators and direct grid power. The MPD-EB42-TL.400AB-YE0-6.T48-N3R-M1 has a left side hinged panel.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS

The MPD-EB42-TL.400AB-YE0-6.T48-N3R-M1 power distribution panel provides a safe and reliable way for operators in industrial settings to tap into and utilize power sources independently of the work area. The MPD series of power distribution panels require operators to provide their own line-in cables for use. Knockouts located at the bottom of the unit are provided for convenient installation of operator-provided input and output cables.

The panel is designed to operate with three-phase 480/277V AC Wye voltage. Power distribution for this panel runs three-phase 480/277V AC Wye through a 400-amp, 18 circuit main lug only panel. The NEMA 3R 400-amp three-phase 480/277V AC Wye main lug only panel contains six 200-amp 2-pole 480V molded case circuit breakers.

Enclosure Design: This power distribution system is housed in a space-saving enclosure and carries a NEMA 3R rating for protection against water, exposure to dirt and incidental contact in indoor or outdoor locations. A left side hinged door offers access to internal system components.

The power distribution system is constructed of steel with a polyester powder coated blue finish for durability against dirt, moisture and mild corrosion. This special coating creates a high-strength barrier for protection from accidental bumps and scratches. The TGIC polyester powder coat finish offers reliable resistance against chemicals, UV light (sun light) and degrading elements in outdoor locations. Our powder coating solution ensures robust color retention for many years without fading. Custom colors, such as blue (standard), black, desert tan or forest green, and galvanized finishes are available upon request. Non-standard powder coat colors or galvanized finishes may increase price and lead times.

We also offer similar power distribution panels on dolly carts with wheels, powder coated cube frames with lifting eyelets/skid pockets or stand-alone with handles for faster turnarounds and completion of temporary tasks.

Certification: All units are built in accordance to NFPA 70 (National Electric Code) and NRTL certified to UL 1640. All equipment is NEMA 3R rated for indoor and outdoor use and provide a degree of protection against dirt, water, and ice. NEMA 4 and NEMA 4X equipment can be equipped upon request.

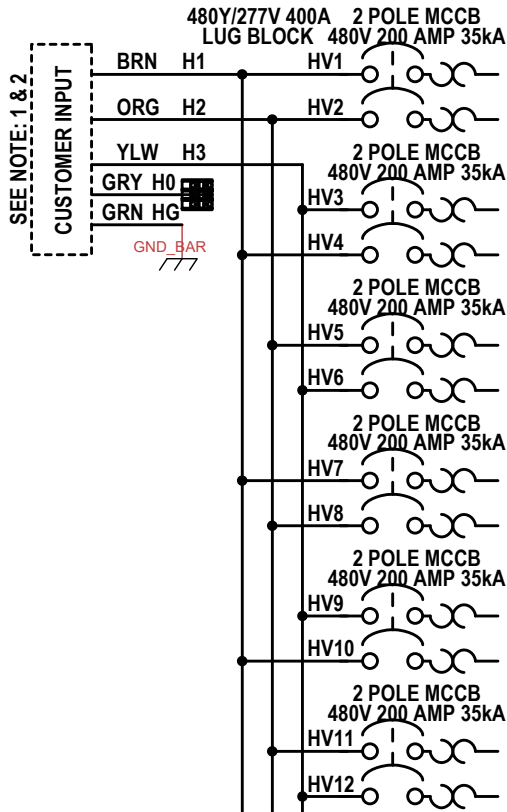
Grounding: Transformer is grounded to the frame and we provide a grounding lug on the frame for the earth ground.

~Please check all motor loads for dual rated motors that will work 208 or 240.~

Applications: This power distribution system is NEMA 3R rated and ideal for indoor/outdoor use and applications including but not limited to; construction sites, plant maintenance, plant turnarounds, hazardous location operations, shows, exhibits, and shipyard operations.

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.



WIRE LEGEND

ID	TYPE	DESCRIPTION	WIRE SIZE
H1	CABLE	600V THHN BROWN	#600 KCMIL cu
H2	CABLE	600V THHN ORANGE	#600 KCMIL cu
H3	CABLE	600V THHN YELLOW	#600 KCMIL cu
H0	CABLE	600V THHN GRAY	#600 KCMIL cu
HG	CABLE	600V THHN GREEN	#2 AWG cu
HV1	CABLE	600V THHN BROWN	#3/0 AWG cu
HV2	CABLE	600V THHN ORANGE	#3/0 AWG cu
HV3	CABLE	600V THHN YELLOW	#3/0 AWG cu
HV4	CABLE	600V THHN BROWN	#3/0 AWG cu
HV5	CABLE	600V THHN ORANGE	#3/0 AWG cu
HV6	CABLE	600V THHN YELLOW	#3/0 AWG cu
HV7	CABLE	600V THHN BROWN	#3/0 AWG cu
HV8	CABLE	600V THHN ORANGE	#3/0 AWG cu
HV9	CABLE	600V THHN YELLOW	#3/0 AWG cu
HV10	CABLE	600V THHN BROWN	#3/0 AWG cu
HV11	CABLE	600V THHN ORANGE	#3/0 AWG cu
HV12	CABLE	600V THHN YELLOW	#3/0 AWG cu

USER NOTES:

- 1) USE MINIMUM 600V 400A WIRING
- 2) USE MINIMUM 480Y/277V 3PH 400A INPUT SERVICE DEVICE

Title MPD-EB42-TL.400AB-YE0-6.T48-N3R-M1		
Author David Downs		
File \\Us ... 480Y-277V 400A 3PH MCB 6x2P200A.dsn		Document
Revision 1.0	Date 02/09/2023	Sheets 1 of 1





Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

The MPD-PB series of Panels & Panelboards are comprised of a NEC (National Electrical Code, United States) and CEC (Canadian Electrical Code, Canada) Listed fuse assemblies, non fused assemblies, and circuit breakers from various manufacturers. These components are manufactured to NEMA, NEC and CEC requirements. Larson Electronics LLC builds the control panel and housing assembly. This assembly is built to NEC and CEC standards under UL 508A, UL 1640 and CSA C22.2 No 14

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC MPD-PB Series industrial line of Panels & Panelboards are considered “ARTICLES” under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS).

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

- i. Which is formed to a specific shape or design during manufacture;
- ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
- iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith
Larson Electronics, LLC.

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Product Description

Title: STAGE & STUDIO PORTABLE WIRING COMPARTMENTS

Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Power Distribution System, Model Nos. MGL, MPD, MGS, WAL series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Stage & Studio Portable Wiring Compartments (UL-1640) and are identified with the ETL Listed Mark.

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Americas+1-888-347-5478
(or +1-312-906-7801)

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dirlist@intertek.com

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Product Description

Title: INDUSTRIAL CONTROL EQUIPMENT

Company: LARSON ELECTRONICS LLC - Kemp, TX USA

Product Information: Industrial Control Panels For General Use.

Power Distribution System, Model Nos. MGL, MPD, MGS series; Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Equipment (CAN/CSA-C22.2 No. 14) and are identified with the cETL Listed Mark.

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Contact Us

ETL listed products that are in doubt or for products that do not appear in the directory, please request a verification of certification.

Americas+1-888-347-5478
(or +1-847-660-7407)
Email
etldirectory@intertek.com

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

The MPD-PB series complies with the below standards set forth by the listed Association's requirements. Purchased and manufactured components are evaluated to Larson Electronics LLC Quality Control Management system per ISO 9001:2015. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Evaluated Standards:

AISC: Structural steel skid design

NFPA 70: National Electrical Code

ASTM A36: Standard Specification for Carbon Structural Steel

ASTM A123: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A153: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM A489: Standard Specification for Carbon Steel Lifting Eyes

ASTM A502: Standard Specification for Rivets, Steel, Structural

ASTM A563: Standard Specification for Carbon and Alloy Steel Nuts

ASTM A500: Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes

ASTM B172: Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors

ASTM D7803: Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating

SAE J429: Mechanical and Material Requirements for Externally Threaded Fasteners

AWS D1.1: Structural Welding – Steel

ICEA S-58-679: Standard for Control, Instrumentation and Thermocouple Extension Conductor Identification

ICEA S-75-381: Portable and Power Feeder Cables for Use in Mines and Similar Applications

NEMA OFP 1-2017: Protection of Receptacle Outlets in Wet Locations According to the National Electrical Code



NEMA PB 1-2011: Panelboards

NEMA WD 1-1999 (R2015): General Color Requirements for Wiring Devices

ANSI C80.1-2015: American National Standard for Electric Rigid Steel Conduit

ANSI C119.4-2016: American National Standard for Electric Connectors

ANSI Z535.4-2011: American National Standard for Product Safety Signs and Labels

ANSI/IEC 60529-2004 (R2011): American National Standard for Degrees of Protection
Provided by Enclosures (IP Code)

Signed for and on behalf of: Larson Electronics, LLC

Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas

Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The MPD-PB series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature:

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: MPD-PB Series
Description: Lighting Panels & Panelboards

Evaluated Listings:

FCC: Radio Frequency Emission & Authorization Status

The MPD-PB Series complies with Federal Communications Commission requirements for Radio Frequency Emission & Authorization Status. This product is not capable of emitting rf energy and does not require FCC authorization. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager

Frequently Asked Questions (FAQ)