

MPD-PB-LB-MB-YE-H-L-30-BF-N3R-8.S56

125A Power Panelboard, 3PH Main Breaker Panel, 30 Circuit, 480Y/277 (8) 15A 3P Breakers, (6) Spare Circuits w/ Covers, NEMA 3R, Bottom Feed, Wall Mount

Product ID: 297809



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-LB-MB-YE-H-L-30-BF-N3R-8.S56 - 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: Bottom 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: (30) Ckt Total - (30) Circuit MCB
Branch Breakers: (8) 15A 3-Pole Breakers, MCB, 10 kAIC, Din Rail Mount; (6) Spare Circuits w/ Covers
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: Bottom, Side Knockouts
Feed Thru Capacity: Not Capable of Feed Thru Line-Outs
Mount: Wall Mounted
Enclosure Door: (1) Left Hinged Door w/ Handle

Ratings

Max Primary OCP: 125A @ 480V

Made in the USA
NRTL Certified to UL 508A
NRTL Certified to UL 1640
NEMA 3R Rated Indoor/Outdoor Use

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: -

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 - Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

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

This unit is Made In USA - Manufactured in Texas

The MPD-PB-LB-MB-YE-H-L-30-BF-N3R-8.S56 from Larson Electronics is a Power Distribution Main Breaker Lighting Panelboard that 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: 480Y/277 AC 3PH Wye-N
- Panel: 125A MB Hinged 30 Circuit Count
- Branch Breaker(s): (8) 15A 3-Pole Breakers, MCB, 10 kAIC, Din Rail Mount; (6) Spare Circuits w/ Covers, Compatible with Larson Electronics Din Rail Mount Breakers. Not compatible with GFCI Style Breakers.

- Enclosure: NEMA 3R for Indoor and Outdoor Applications, Bottom Feed

Panelboard: The MPD-PB-LB-MB-YE-H-L-30-BF-N3R-8.S56 power distribution Lighting panelboard unit gives operators the ability to power and protect their MPD-PB-LB-MB-YE-H-L-30-BF-N3R-8.S56 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-30-BF-N3R-8.S56 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 Bottom feed for running input conduit and Side Knockouts. This panelboard 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.

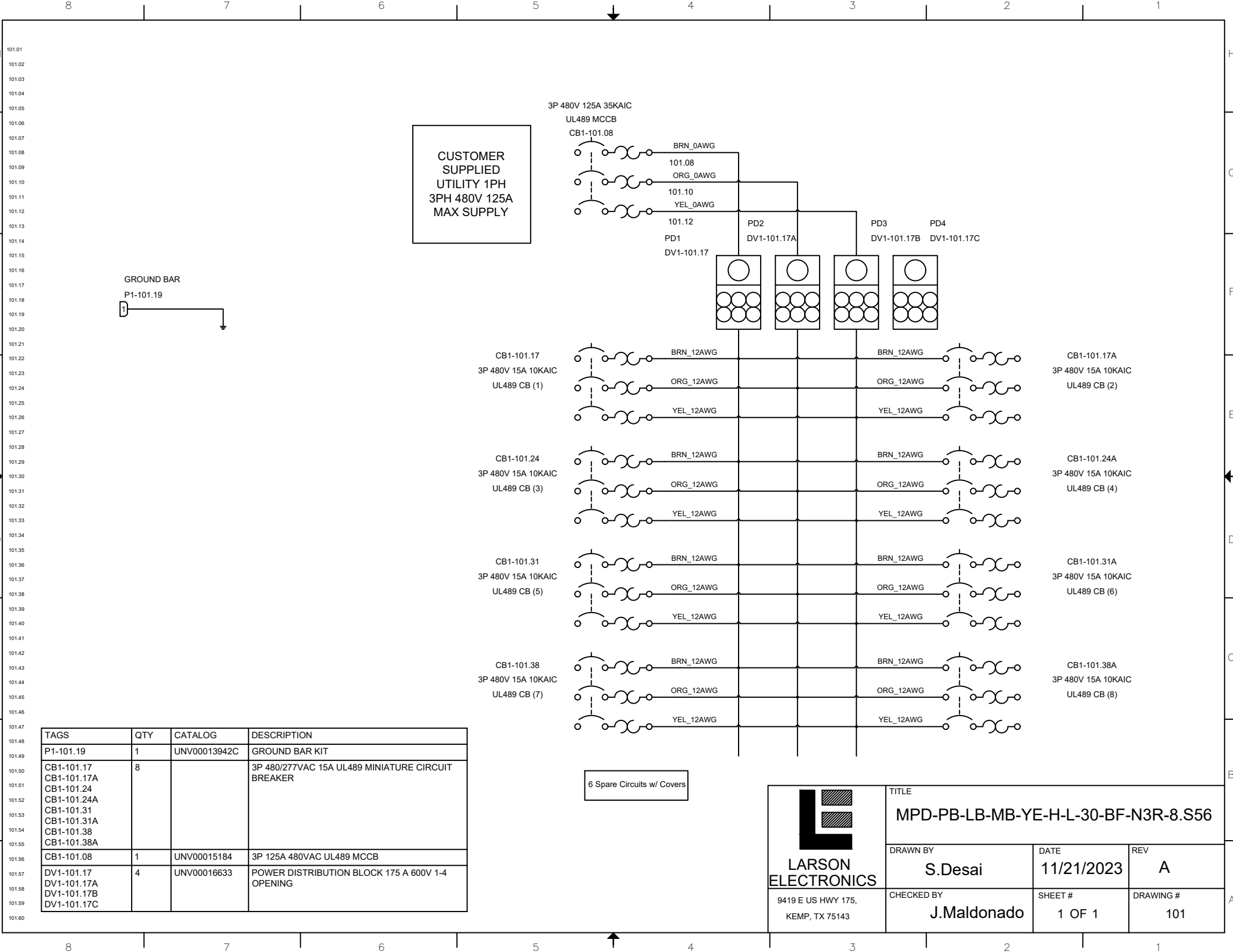
~Please check all motor loads for dual rated motors that will work 208 or 240.~

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.

8	7	6	5	4	3	2	1
REV	DESCRIPTION						DATE
	PRODUCTION RELEASE						11/20/2023
MPD-PB-LB-MB-YE-H-L-30-BF-N3R -8.S56 							
8	7	6	5	4	3	2	1





GROUND BAR

P1-101.19

3P 480V 125A 35KAIC

UL489 MCCB

CB1-101.08

BRN_0AWG

101.08

ORG_0AWG

101.10

YEL_0AWG

101.12

PD1

DV1-101.17

PD2

DV1-101.17A

PD3

DV1-101.17B

PD4

DV1-101.17C

CB1-101.17

3P 480V 15A 10KAIC

UL489 CB (1)

BRN_12AWG

ORG_12AWG

YEL_12AWG

BRN_12AWG

ORG_12AWG

YEL_12AWG

CB1-101.17A

3P 480V 15A 10KAIC

UL489 CB (2)

CB1-101.24

3P 480V 15A 10KAIC

UL489 CB (3)

BRN_12AWG

ORG_12AWG

YEL_12AWG

BRN_12AWG

ORG_12AWG

YEL_12AWG

CB1-101.24A

3P 480V 15A 10KAIC

UL489 CB (4)

CB1-101.31

3P 480V 15A 10KAIC

UL489 CB (5)

BRN_12AWG

ORG_12AWG

YEL_12AWG

BRN_12AWG

ORG_12AWG

YEL_12AWG

CB1-101.31A

3P 480V 15A 10KAIC

UL489 CB (6)

CB1-101.38

3P 480V 15A 10KAIC

UL489 CB (7)

BRN_12AWG

ORG_12AWG

YEL_12AWG

BRN_12AWG

ORG_12AWG

YEL_12AWG

CB1-101.38A

3P 480V 15A 10KAIC

UL489 CB (8)

6 Spare Circuits w/ Covers

TAGS	QTY	CATALOG	DESCRIPTION
P1-101.19	1	UNV00013942C	GROUND BAR KIT
CB1-101.17 CB1-101.17A CB1-101.24 CB1-101.24A CB1-101.31 CB1-101.31A CB1-101.38 CB1-101.38A	8		3P 480/277VAC 15A UL489 MINIATURE CIRCUIT BREAKER
CB1-101.08	1	UNV00015184	3P 125A 480VAC UL489 MCCB
DV1-101.17 DV1-101.17A DV1-101.17B DV1-101.17C	4	UNV00016633	POWER DISTRIBUTION BLOCK 175 A 600V 1-4 OPENING

 LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE MPD-PB-LB-MB-YE-H-L-30-BF-N3R-8.S56		
	DRAWN BY S.Desai	DATE 11/21/2023	REV A
	CHECKED BY J.Maldonado	SHEET # 1 OF 1	DRAWING # 101





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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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.

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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: *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:

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)