

MPD-CM1-BS.15AB-DM3LE-CZ-BW.125AB-M1-DONOTUSE

Mini Portable Power Distro, 277V - 24V AC 1PH, (1) 15A 3P MCCB, 10' 12/4 SOOW, NEMA 3R
Product ID: 315279



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-CM1-BS.20AB-DE0-C-1.L38-M1 - Portable Spider Box

Line-in Cord: 50' #12/4 AWG TYPE SOOW Cord [600V]

Line-in Cord Cap: Not Included - Requires Minimum Use Service Device 20A @ [480V]
(**Customer Provided**)

Primary Voltage (V): 480V AC Delta

Primary Phase (PH): 3-Phase (3PH)

Primary Frequency (HZ): 60 Hz (60-cycles)

Primary Panel: 480V 3PH 20A N3R

Primary Breaker(s): (1) 20A 3P MCB [480V]

Primary Outlet(s): (1) L22-20R NEMA Twist-Lock [480Y/277V]

Primary Protection: MCB Circuit Breaker

Transformer (KVA): N/A

Secondary Voltage (V): N/A

Secondary Phase (PH): N/A

Secondary Frequency (HZ): N/A

Secondary Panel: N/A

Secondary Breaker(s): N/A

Secondary Outlet(s): N/A

Secondary Protection: N/A

Form Factor: Blue Powder Coated Portable w/ Base Stand

Frame Finish: High-Strength TGIC Polyester Powder Coated Blue

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.

Ratings

Max Primary OCP: 20A @ 480V

Max Secondary Output: -

NEMA 3R Indoor or Outdoor Use

Made in the USA

NRTL Certified to UL 1640

Powder Coat Finish Standards:

Complies with ASTM D-523

Complies with ASTM D-3359

Complies with ASTM D-522

Complies with ASTM D-3363

Complies with ASTM D-2794

Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

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-CM1-BS.20AB-DE0-C-1.L38-M1 from Larson Electronics is a Portable Power Distribution System that provides three-phase 480V AC Delta input voltage. All system components are protected by a powder coated steel enclosure with a top located handle for mobility.

Operation:

- Primary Voltage: 480V AC Delta 3PH
- Primary Panel: 480V 3PH 20A N3R
- Primary Breaker(s): (1) 20A 3P MCB [480V]
- Primary Outlet(s): (1) L22-20R NEMA Twist-Lock [480Y/277V]
- Transformer: N/A
- Secondary Voltage: N/A
- Secondary Panel: N/A
- Secondary Breaker(s): N/A
- Secondary Outlet(s): N/A

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

The MPD-CM1-BS.20AB-DE0-C-1.L38-M1 portable wheeled spider box from Larson Electronics is built to provide operators with a reliable source of 480V AC Delta power. This spider box is designed for portability and convenience as well as durability. Featuring an elevated base platform for protection from standing water and weatherproof construction, the MPD-CM1-BS.20AB-DE0-C-1.L38-M1 is ideal for powering 480V AC Delta equipment and lighting in construction, entertainment, job-site, marine, and outdoor locations where 120V generators are providing the power.

This portable spider box features one L22-20R 480Y/277V twist lock receptacle that provides sealed and secure connections for up to 1 device. The receptacle provides 480V for powering high voltage lighting and equipment without the need for running additional extension cords. The MPD-CM1-BS.20AB-DE0-C-1.L38-M1 power distribution unit features short circuit and overload protection. In the instance of circuit overload, the unit automatically shuts down to protect the unit from damage and operators manually restart the system.

Operation: A 50' 12/4 AWG SOOW cord brings three-phase 480V AC Delta power to the primary side of the system and passes power to the circuit breaker. The 20-amp miniature circuit breaker protects the L22-20R twist lock receptacle..

Protective Construction: The housing on the MPD-CM1-BS.20AB-DE0-C-1.L38-M1 is constructed from powder coated steel with a NEMA 3R enclosure rating. The angled base and low center of gravity ensure this low voltage transformer does not tip over when in the field. The entire unit is powder coated with glossy blue finish for corrosion resistance and aesthetics. A top located adjustable push handle allows operators to guide this unit through the workspace.

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 black, grey, 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. This temporary 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) 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.

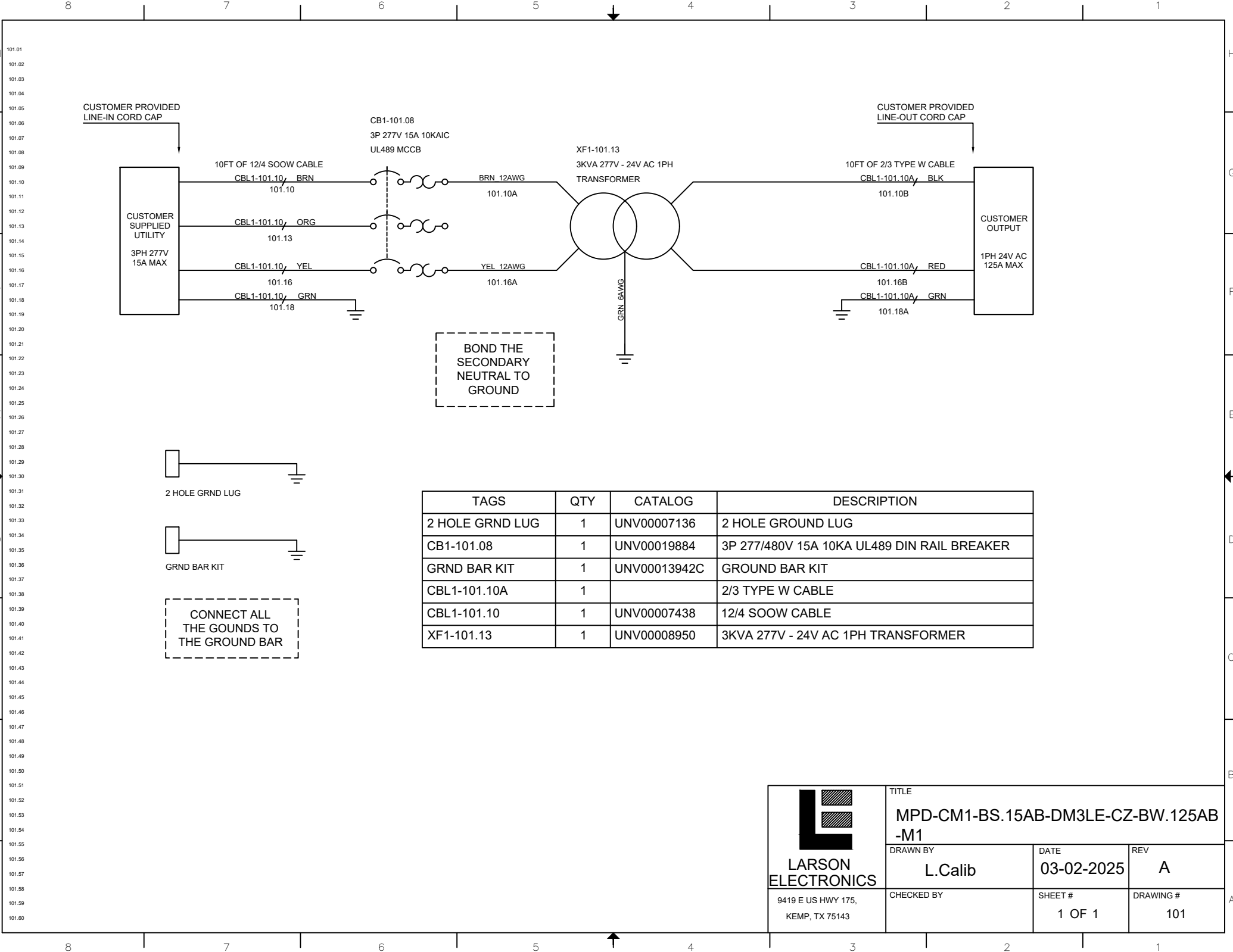
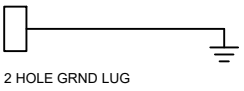
Grounding: Transformer is grounded to the frame and we provide a grounding lug on the frame for the earth ground.

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

Applications: This power distribution system is 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	QUOTE	03/02/2025
<div>MPD-CM1-BS.15AB-DM3LE-CZ-BW.125AB -M1</div> <div></div>		



CONNECT ALL
THE GOUNDS TO
THE GROUND BAR

TAGS	QTY	CATALOG	DESCRIPTION
2 HOLE GRND LUG	1	UNV00007136	2 HOLE GROUND LUG
CB1-101.08	1	UNV00019884	3P 277/480V 15A 10KA UL489 DIN RAIL BREAKER
GRND BAR KIT	1	UNV00013942C	GROUND BAR KIT
CBL1-101.10A	1		2/3 TYPE W CABLE
CBL1-101.10	1	UNV00007438	12/4 SOOW CABLE
XF1-101.13	1	UNV00008950	3KVA 277V - 24V AC 1PH TRANSFORMER



LARSON
ELECTRONICS

9419 E US HWY 175,
KEMP, TX 75143

TITLE
MPD-CM1-BS.15AB-DM3LE-CZ-BW.125AB
-M1

DRAWN BY
L.Calib

CHECKED BY

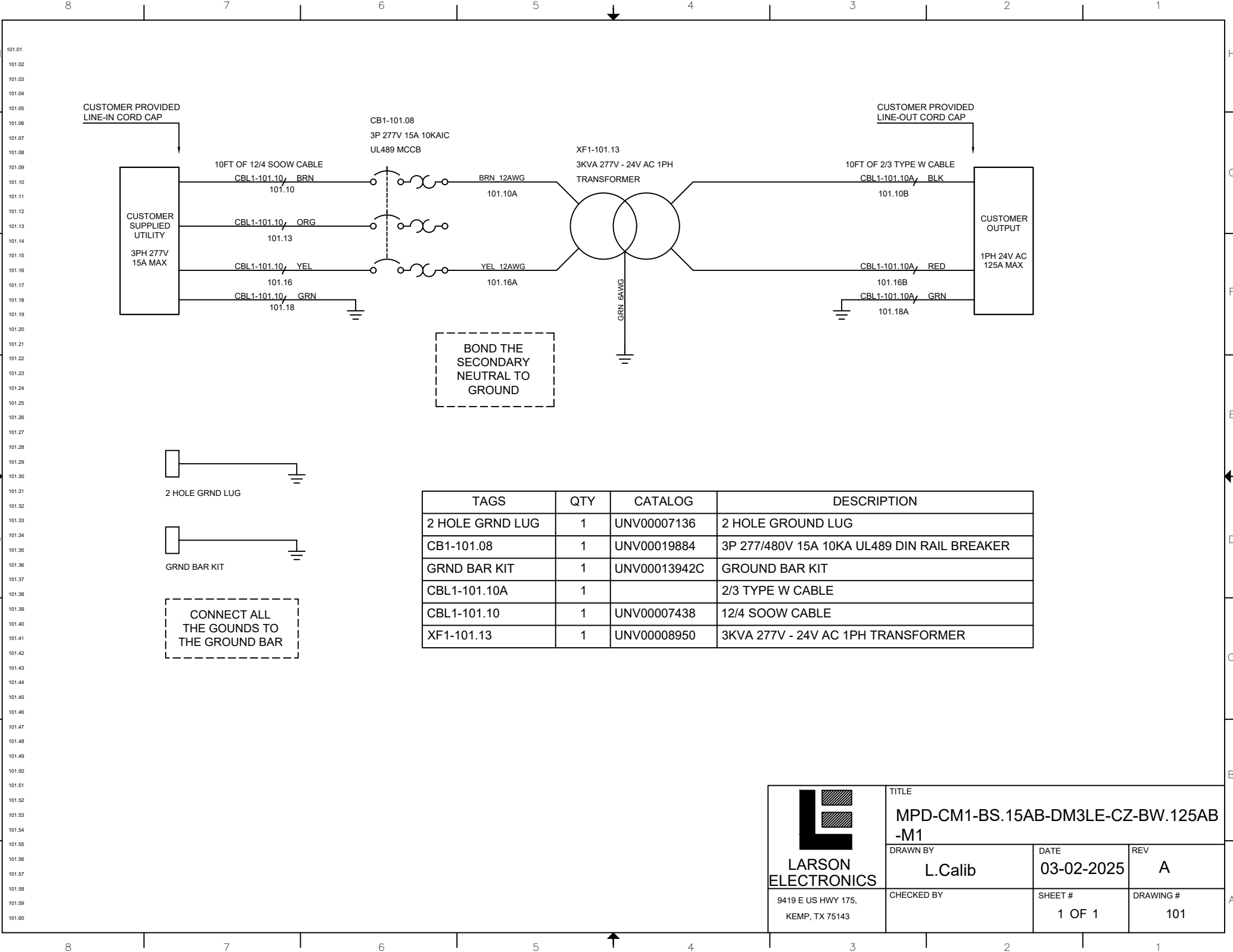
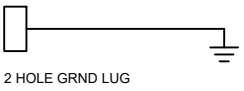
DATE
03-02-2025

SHEET #
1 OF 1

REV
A

DRAWING #
101

REV	DESCRIPTION	DATE
A	QUOTE	03/02/2025
<div>MPD-CM1-BS.15AB-DM3LE-CZ-BW.125AB -M1</div> <div></div>		



CONNECT ALL THE GOUNDS TO THE GROUND BAR

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GRND BAR KIT	1	UNV00013942C	GROUND BAR KIT
CBL1-101.10A	1		2/3 TYPE W CABLE
CBL1-101.10	1	UNV00007438	12/4 SOOW CABLE
XF1-101.13	1	UNV00008950	3KVA 277V - 24V AC 1PH TRANSFORMER



**LARSON
ELECTRONICS**

9419 E US HWY 175,
KEMP, TX 75143

TITLE MPD-CM1-BS.15AB-DM3LE-CZ-BW.125AB -M1		
DRAWN BY L.Calib	DATE 03-02-2025	REV A
CHECKED BY	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: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

Evaluated Listings:

ETL: UL 1640 - NEC / United States standards

ETL: CAN/CSA-C22.2 No. 14 – CEC / Canada standards

The MGL, MPD, MGS, WAL Series are certified to NEC and CEC standards for power distribution systems. These units are constructed using individual components certified to NEC and CEC standards, and are built to UL 1640 and CAN/CSA C22.2 No 14.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX
Date of issue: September 11, 2019

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 statements(s) as listed:

Model: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

The MGL, MPD, MGS, WAL Series from Larson Electronics LLC utilize components certified to NEC and CEC standards. Larson Electronics LLC specifies wiring device standard designations (e.g. NEMA 5-20R, NEMA L6-30R, CS8265C) in the electrical diagrams and spec sheet of each product. Unless specified, the brands of components used, which may vary based on availability at the time of build, include but are not limited to: Hubbell, Leviton, Molex, Daniel Woodhead, Legrand, Eaton, Thomas & Betts, Russel Stroll, Meltric, Mennekes, ABB Group, Emerson, Appleton, Crouse Hinds, Killark, R.Stahl, or other certified equipment manufacturers.

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

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



TECHNICAL INFORMATION

POWDURA® POLYESTER TGIC POWDER COATING

PRODUCT DESCRIPTION

PLR2-60002

RAL 5010 GENT BLUE

POWDURA® Polyester TGIC Powder

Coatings are recommended for a broad range of interior/exterior functional and decorative applications.

Advantages:

- Provides excellent overbake resistance
- Good chemical resistance
- Very good outdoor exposure qualities
- Wide range of special effects available
- Available in a broad range of colors

Many applications, including:

Steel Furniture
Refrigeration
Electronic Cabinetry
Scaffolding
Electrical Equipment
Instrument Housings

Appliances
Sporting Goods

Storage: Powdura® Powder Coatings should be kept in a dry and cool area at temperatures below 80°F (27°C). When not in use, store powder in sealed containers: fine powders are hygroscopic.

Substrate Preparation: Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, any contamination, and surface preparation treatments to ensure optimum adhesion and coating performance properties. The use of a chemical conversion coating prior to the application of a powder coating is strongly recommended.

Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full-scale application.

CAUTIONS

Thoroughly review product SDS prior to using this product. Please consult your local sales representative or your local Sherwin-Williams facility for additional information.

Special Advisory: River texture type finishes are unique finishes that may vary with application, film thickness and cure conditions. Light colors and very dark colors may occasionally show colored specks that appear as contamination.

This is the nature of this type of finish and cannot be predicted or controlled. Thorough cleaning is required when switching to a normal smooth powder coating to prevent craters in the smooth finish.

APPLICATION

Cure Schedule: 10 MIN @ 400F

Film Thickness Range(mils): 3.0-5.0

ATTRIBUTES

Specific Gravity(g/ml): 1.72

Coverage at 1.0 Mil(ft²/lb): 112.4

60° Gloss: 15-30
(ASTM D-523)

Adhesion: 5B
(ASTM D-3359)

Flexibility: Pass 1/8"
(ASTM D-522)

Pencil Hardness: H-2H
(ASTM D-3363)

Impact Resistance(in.lb): Dir 100 in-lbs
(ASTM D-2794) Rev 100 in-lbs

Note: Performance measured using 24-gauge Bonderite® 1000 test panels.

Shelf Life: 12 Months

Sherwin-Williams recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

Note:

Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating and opinions stated above pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application, which are not known, or under our control, The Sherwin-Williams Company cannot make any warranties or guaranties as to the end results.

08 00

Grove City Product Mod
24-Mar-2020



Material Safety Data Sheet

To Whom It May Concern,

Larson Electronics LLC MGL, MPD, MGS, WAL Series industrial line of portable power distribution systems 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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Contact Us

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: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

The MGL, MPD, MGS, WAL 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 ST 20-2014: Dry Type Transformers for General Applications

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: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

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 MGL, MPD, MGS, WAL 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: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

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: MGL, MPD, MGS, WAL Series
Description: Power Distribution Systems

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

Frequently Asked Questions (FAQ)