Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1

100A Rack Mount Distro, 120/240V 1PH, 4100B12W Inlet, (3) 6-30R (4) NAC3FPX-ST (2) 5-20R GFCI Duplex Outlets, NEMA 3R

Product ID: 312627



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-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1 Rack Mount Power Distribution Unit

Line-in: 4100B12W IEC 60309 100A Pin & Sleeve Male Inlet [125/250V]
Line-in Cord Cap: -
Primary Voltage (V): 120/240V AC
Primary Phase (PH): 1-Phase (1PH)
Primary Frequency (Hz): 60 Hz (60-cycles)
Primary Panel: 120/240V 1PH 100A MLO N3R
Primary Breaker(s): (3) 30A 2P MCB [250V]; (6) 20A 1P MCB [125V]
Primary Outlet(s): (3) 6-30R NEMA Straight-Blade [250V]; (4) NAC3FPX-ST PowerCON IP65 Female Rcpt [250V]; (2) 5-20R NEMA GFCI-DPLX [125V]
Primary Protection: MCB Circuit Breakers; GFCI's
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: 3U Rack Mount

Frame Materials: -

Dimensions: 19"-W x 5.25"-H X 7"-D

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: 100A @ 240V
Max Secondary Output: N/A
NRTL Listed to UL 508A
NRTL Listed to UL 1640
NRTL Listed to CSA C22.2 No. 14

Special Orders - Special 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

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

Made in Texas

The MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1 from Larson Electronics is a Rack Mount Power Distribution Unit that is a portable power solution designed for stages, movie sets, concerts, and entertainment sites. This mobile power distribution unit provides operators the ability to safely tap into and distribute single-phase 120/240V AC power from a variety of sources, including generators and direct grid power, found in motion picture production.

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

Portable Power Distribution Purpose and Use: The MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1 portable power distribution system gives operators the ability to power their 120 volt and 240 volt equipment from a single system within live recording and entertainment venues.

Operation:

- Primary Voltage: 120/240V AC 1PH
- Primary Panel: 120/240V 1PH 100A MLO N3R
- Primary Breaker(s): (3) 30A 2P MCB [250V]; (6) 20A 1P MCB [125V]
- Primary Outlet(s): (3) 6-30R NEMA Straight-Blade [250V]; (4) NAC3FPX-ST PowerCON IP65 Female Rcpt [250V]; (2) 5-20R NEMA GFCI-DPLX [125V]
- 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.

Protective Construction: This unit does not come with a rack mount case. The system must be installed in a customer provided 3U rack mount case for protection.

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.

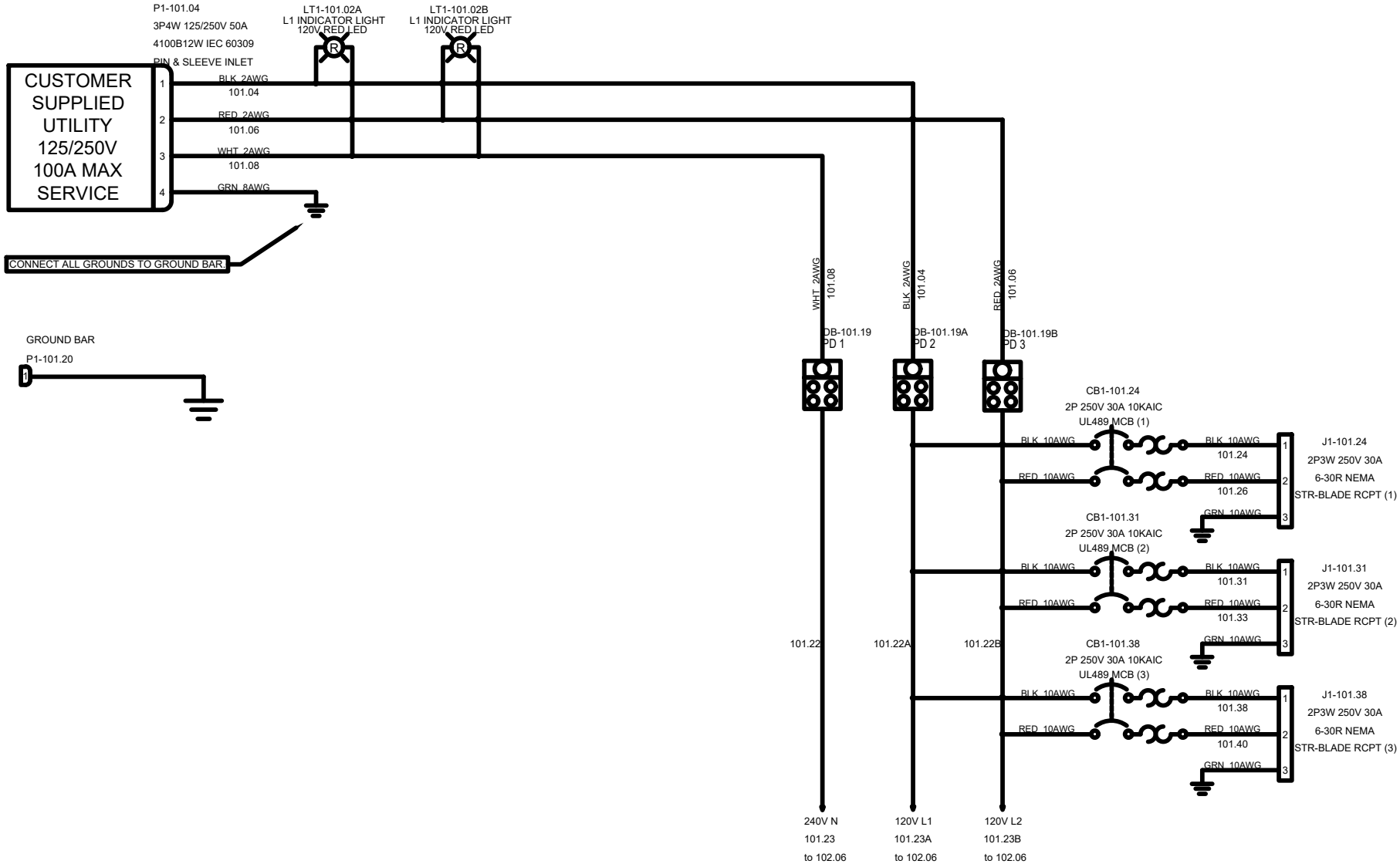
Applications: This power distribution system is ideal for indoor or outdoor use and applications including but not limited to, movie sets, entertainment, television sets, stage lighting, studio recording, sporting events, rigging, audio and video production, concerts, and motion picture production. These 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	PDU CREATE	12/10/2024

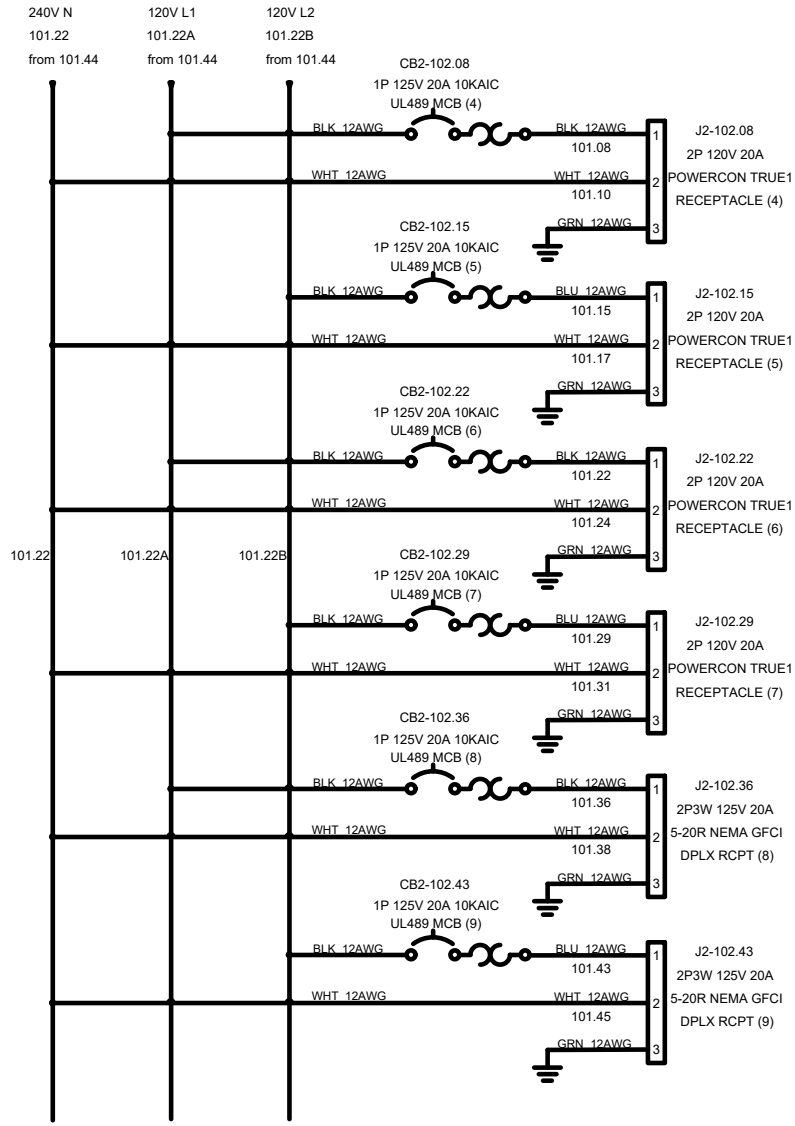
MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1





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KEMP, TX 75143

TITLE			
MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1			
DRAWN BY	DATE	REV	
D. DOWNS	12-10-2024	A	
CHECKED BY	SHEET #	DRAWING #	
	1 OF 2	101	



TAGS	QTY	CATALOG	DESCRIPTION
P1-101.04	1	4100B12W	4100B12W 100A 125/250V IEC 309 Pin & Sleeve Male Inlet
P1-101.20	1	UNV00013942C	GROUND BAR KIT 14AWG TO 4AWG
LT1-101.02A LT1-101.02B	2	UNV00015469	1.5MA 125V RED POWER INDICATOR LIGHT
DB-101.19 DB-101.19A DB-101.19B	3	UNV00015084	POWER DISTRIBUTION BLOCK 1-4 OPENING 175A 600V
CB1-101.24 CB1-101.31 CB1-101.38	3	UNV00017628	30A 2P 250V 10KA UL489 DIN RAIL MOUNT BREAKER
CB2-102.08 CB2-102.15 CB2-102.22 CB2-102.29 CB2-102.36 CB2-102.43	6	UNV00017491	20A 1P 125V 10KA UL489 DIN RAIL MOUNT BREAKER
J1-101.24 J1-101.31 J1-101.38	3	UNV00012698	6-30R 30A 250V NEMA STRAIGHT-BLADE RECEPTACLE
J2-102.08 J2-102.15 J2-102.22 J2-102.29	4	UNV00021227	Neutrik powerCON TRUE1 TOP Receptacle
J2-102.36 J2-102.43	2	UNV00014533	5-20R 20A 125V NEMA GFCI DUPLEX RECEPTACLE

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KEMP, TX 75143

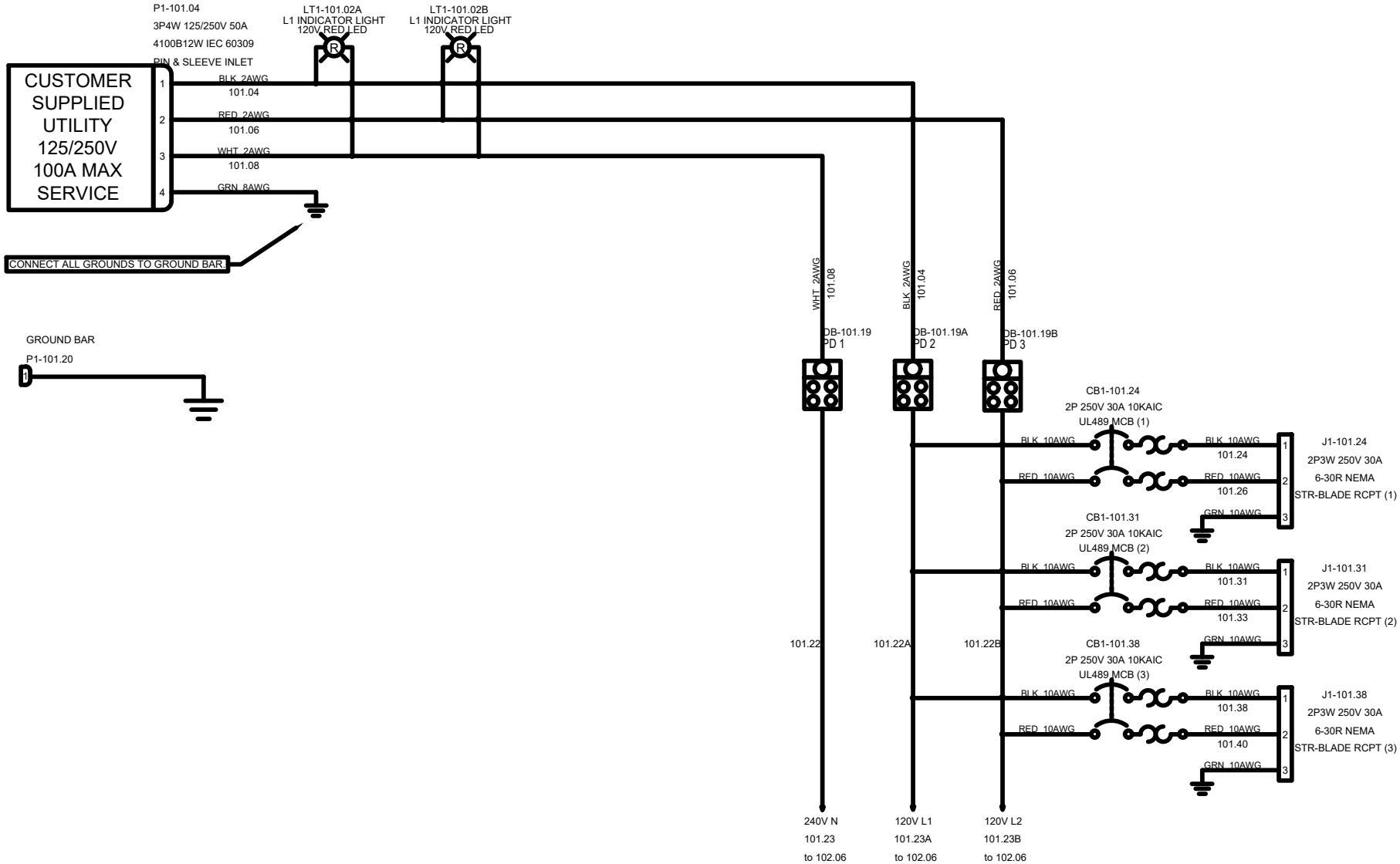
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DRAWN BY	DATE	REV
D. DOWNS	12-10-2024	A
CHECKED BY	SHEET #	DRAWING #
	2 OF 2	102

REV	DESCRIPTION	DATE
A	PDU CREATE	12/10/2024

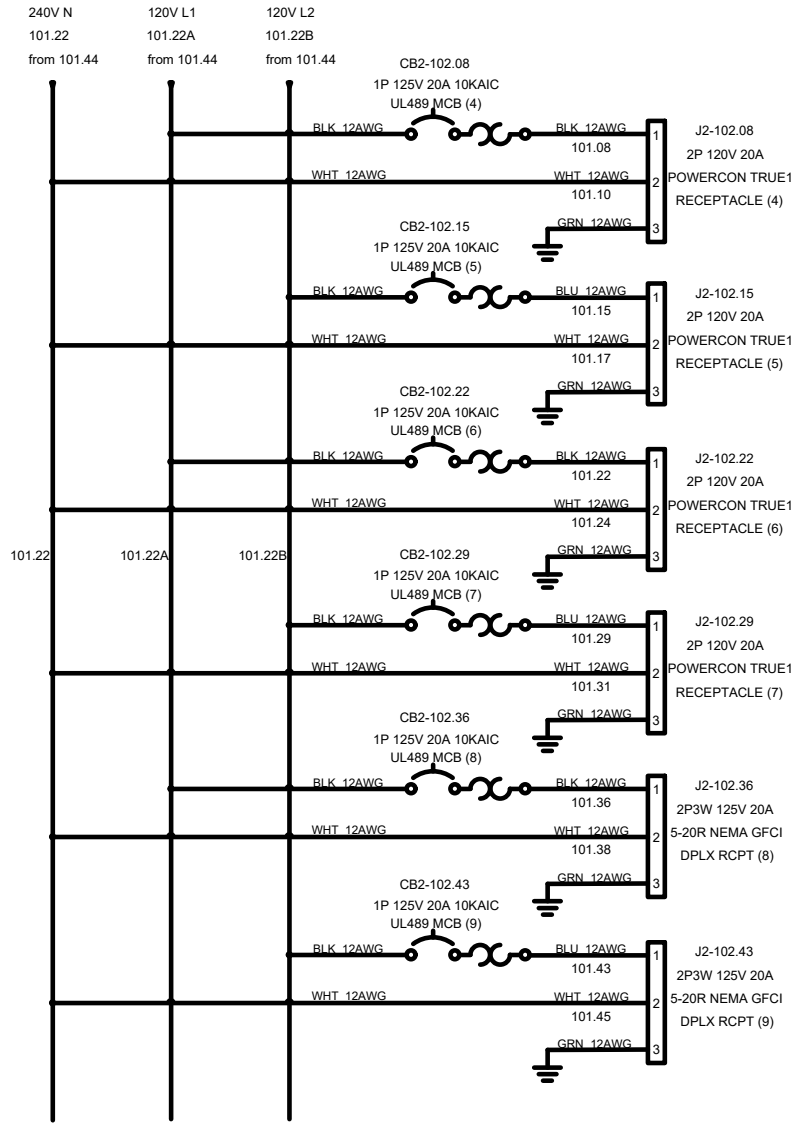
MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1





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TITLE			
MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1			
DRAWN BY	DATE	REV	
D. DOWNS	12-10-2024	A	
CHECKED BY	SHEET #	DRAWING #	
	1 OF 2	101	



TAGS	QTY	CATALOG	DESCRIPTION
P1-101.04	1	4100B12W	4100B12W 100A 125/250V IEC 309 Pin & Sleeve Male Inlet
P1-101.20	1	UNV00013942C	GROUND BAR KIT 14AWG TO 4AWG
LT1-101.02A LT1-101.02B	2	UNV00015469	1.5MA 125V RED POWER INDICATOR LIGHT
DB-101.19 DB-101.19A DB-101.19B	3	UNV00015084	POWER DISTRIBUTION BLOCK 1-4 OPENING 175A 600V
CB1-101.24 CB1-101.31 CB1-101.38	3	UNV00017628	30A 2P 250V 10KA UL489 DIN RAIL MOUNT BREAKER
CB2-102.08 CB2-102.15 CB2-102.22 CB2-102.29 CB2-102.36 CB2-102.43	6	UNV00017491	20A 1P 125V 10KA UL489 DIN RAIL MOUNT BREAKER
J1-101.24 J1-101.31 J1-101.38	3	UNV00012698	6-30R 30A 250V NEMA STRAIGHT-BLADE RECEPTACLE
J2-102.08 J2-102.15 J2-102.22 J2-102.29	4	UNV00021227	Neutrik powerCON TRUE1 TOP Receptacle
J2-102.36 J2-102.43	2	UNV00014533	5-20R 20A 125V NEMA GFCI DUPLEX RECEPTACLE

LARSON ELECTRONICS

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TITLE: MPD-SA3-309.100AB-SZ0-Z-3.N19-4.PCF-2.N10-R1

DRAWN BY	DATE	REV
D. DOWNS	12-10-2024	A
CHECKED BY	SHEET #	DRAWING #
	2 OF 2	102


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VAC 20A 3P4W

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

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p: 1-800-369-6671 • intl: 903-498-3363 • f: 903-498-3364 • sales@larsonelectronics.com

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

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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(ft^2/lb):	112.4
60° Gloss: (ASTM D-523)	15-30
Adhesion: (ASTM D-3359)	5B
Flexibility: (ASTM D-522)	Pass 1/8"
Pencil Hardness: (ASTM D-3363)	H-2H
Impact Resistance(in.lb): (ASTM D-2794)	Dir 100 in-lbs 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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(or +1-312-906-7801)
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Intertek Unveils New Design for Product Safety and Quality Certification Marks. Learn more...

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Total Quality. Assured.



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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.

<- Back

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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Inspector Center

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News

Intertek Unveils New Design for Product Safety and Quality Certification Marks. Learn more...

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All other product or service names are the property of their respective owners.

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

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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

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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

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

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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

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Certification

Manufacturer: Larson Electronics LLC
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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: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)