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-CD1-BS.30AB-SF10SW-DZ-12.N10-M1

10 KVA Portable Power Distribution, 480-120V 1PH, (12) 5-20R Duplex, 25' Line-In

Product ID: 286698



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-CD1-BS.30AB-SF10SW-DZ-12.N10-M1 -Temporary Power Distribution System
Line-in Cord: 25' #10/3 AWG TYPE SOOW Cord [600V]
Line-in Cord Cap: Not Included - Requires Minimum Use Device 30A @ [460V] (**Customer Provided**)
Primary Voltage (V): 460V AC
Primary Phase (PH): 1-Phase (1PH)
Primary Frequency (HZ): 60 Hz (60-cycles)
Primary Breaker: (1) 30A 2P MCB [480V]
Primary Protection: MCB Circuit Breaker
Transformer (KVA): 10KVA 460V to 120V 1PH N3R
Secondary Voltage (V): 120V AC
Secondary Phase (PH): 1-Phase (1PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: 120V 1PH 83.3A MLO Hinged N3R
Secondary Breakers: (6) 20A 1P MCB [125V]
Secondary Outlets: (12) 5-20R NEMA DPLX GFCI [125V]
Secondary Protection: MCB Circuit Breakers; GFCI's
Form Factor: Blue Powder Coated MGL w/ No Flat Tires
Front Cover: Weatherproof Lid w/ Front-located Handle and Lock
Cover Locking Position: Upward w/ Internal Locks on Both Sides of the Lid
Vibration Isolators: Transformer and Breakers
Drain Plug: Panel
Cart Material: Steel
Cart Finish: High-strength TGIC Polyester Powder Coated Blue
Cart Handle Orientation: Horizontal
Lifting Eyelet: (1) Center Point
Wheels: (2) Runflat Inflatable Tires [Rear] & (2) Swivel Casters [Front]

Ratings
Max Primary OCP: 30A @ 460V
Max Secondary Output: 83.3A @ 120V
NEMA 3R Indoor or Outdoor Use
NEMA 3R In-Use Weather Shield
Made in the USA
NRTL Certified to UL 1640
NRTL Certified to CSA C22.2 No. 14

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: 1-214-616-6180
Toll Free: 1-800-369-6671

Dimensions: 41"-W x 30"-D x 66.5"-H

Weight: 850 lbs

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.

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 Larson Electronics MPD-CD1-BS.30AB-SF10SW-DZ-12.N10-M1 temporary power distribution system converts single-phase 460V AC electrical current into single-phase 120V AC. This unit provides operators the ability to safely tap into and distribute 480V AC power from a variety of sources including generators and direct grid power.

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

The MPD-CD1-BS.30AB-SF10SW-DZ-12.N10-M1 temporary power distribution system gives operators the ability to power their 120 volt equipment from a single system.

Operation:

- Primary Voltage: 1-phase 460V AC
- Primary Receptacles: N/A
- Transformer: 10KVA 460V to 120V 1PH N3R
- Secondary Voltage: 1-phase 120V AC
- Secondary Receptacles: (12) 5-20R NEMA DPLX GFCI [125V]

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

Protective Construction: A weatherproof flip cover at the front of the unit can be lifted upwards via an accessible handle, which serves as protection for (primary and secondary) breakers and receptacles in rugged environments when deployed at the site. Operators may access locks on the door and on the ears (accessible from the inside of the lid) of the panel. The panel can be positioned upwards and locked in place for easy access to receptacles and breakers. A drain plug on the panel helps the power distribution system achieve a NEMA 3R rating, allowing the unit to be used in both indoor and outdoor locations.

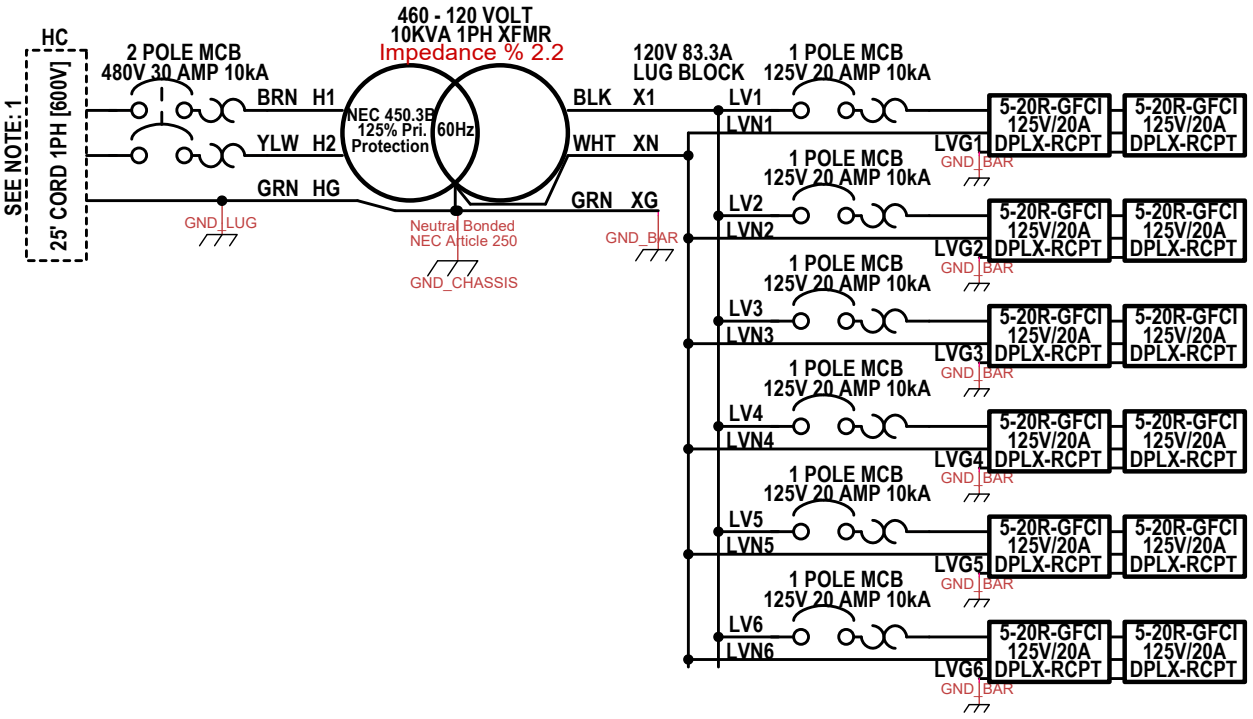
The transformer is protected by vibration isolators that reduce damage to exterior jacket of wiring components and decrease noise during operation. In MGL-style power distribution systems, the presence of vibration isolators ensures wiring between the transformer and panel is well protected and does not have to be frequently replaced. Vibration isolators can also be found on the breakers, which protect the breakers from damage, prevent loose bolts/nuts and reduce overall noise during use in the field.

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.

The transformer and load center/distribution assembly is mounted to a standard steel cart style frame resulting in an extremely stable, durable, and mobile power distribution platform. Two rotating urethane casters in the front and two inflatable run-flat tires in the rear on this cart style mounting platform provides easier substation mobility, and a center point lift eye allows easy lifting with cable or chain hooks. 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 mounted.

Certification: All units are built in accordance to NFPA 70 (National Electric Code) and 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.



WIRE LEGEND

ID	TYPE	DESCRIPTION	WIRE SIZE
HC	CORD	600V TYPE SOOW	#10/3 AWG cu
H1	CABLE	600V THHN BROWN	#10 AWG cu
H2	CABLE	600V THHN YELLOW	#10 AWG cu
HG	CABLE	600V THHN GREEN	#10 AWG cu
X1	CABLE	600V THHN BLACK	#4 AWG cu
XN	CABLE	600V THHN WHITE	#4 AWG cu
XG	CABLE	600V THHN GREEN	#8 AWG cu
LV1	CABLE	600V THHN BLACK	#12 AWG cu
LV2	CABLE	600V THHN BLACK	#12 AWG cu
LV3	CABLE	600V THHN BLACK	#12 AWG cu
LV4	CABLE	600V THHN BLACK	#12 AWG cu
LV5	CABLE	600V THHN BLACK	#12 AWG cu
LV6	CABLE	600V THHN BLACK	#12 AWG cu
LVG1	CABLE	600V THHN GREEN	#12 AWG cu
LVG2	CABLE	600V THHN GREEN	#12 AWG cu
LVG3	CABLE	600V THHN GREEN	#12 AWG cu
LVG4	CABLE	600V THHN GREEN	#12 AWG cu
LVG5	CABLE	600V THHN GREEN	#12 AWG cu
LVG6	CABLE	600V THHN GREEN	#12 AWG cu
LVN1	CABLE	600V THHN WHITE	#12 AWG cu
LVN2	CABLE	600V THHN WHITE	#12 AWG cu
LVN3	CABLE	600V THHN WHITE	#12 AWG cu
LVN4	CABLE	600V THHN WHITE	#12 AWG cu
LVN5	CABLE	600V THHN WHITE	#12 AWG cu
LVN6	CABLE	600V THHN WHITE	#12 AWG cu

USER NOTES:

1) USE MINIMUM 460V 30A INPUT DEVICE

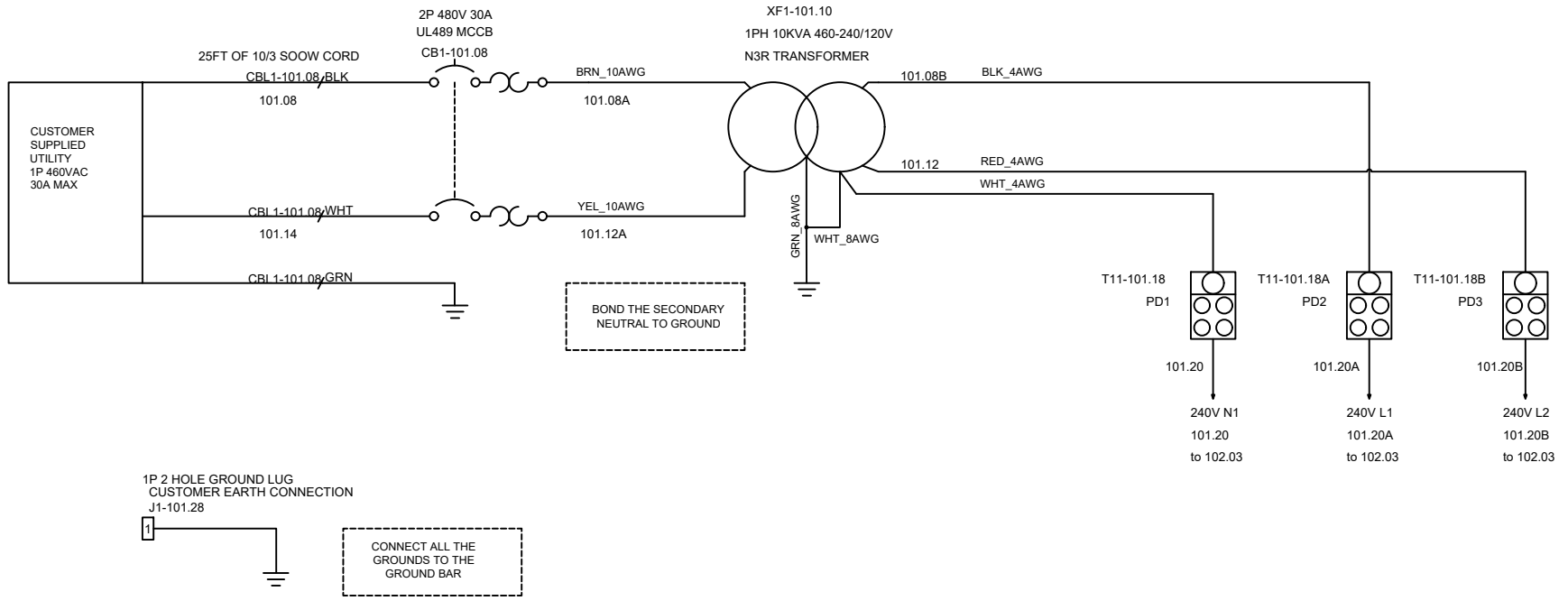
IEC 60076 permits +/- 10% tolerance in percentage impedance at the manufacturer's end.

Title: MPD-CD1-BS.30AB-SF10SW-DZ-12.N10-M1		
Author: David Downs		
File: PH 10KVA 120V 83.3A 1PH MLO 12x5-20R GFC		Document
Revision: 1.0	Date: 10/11/2022	Sheets: 1 of 1

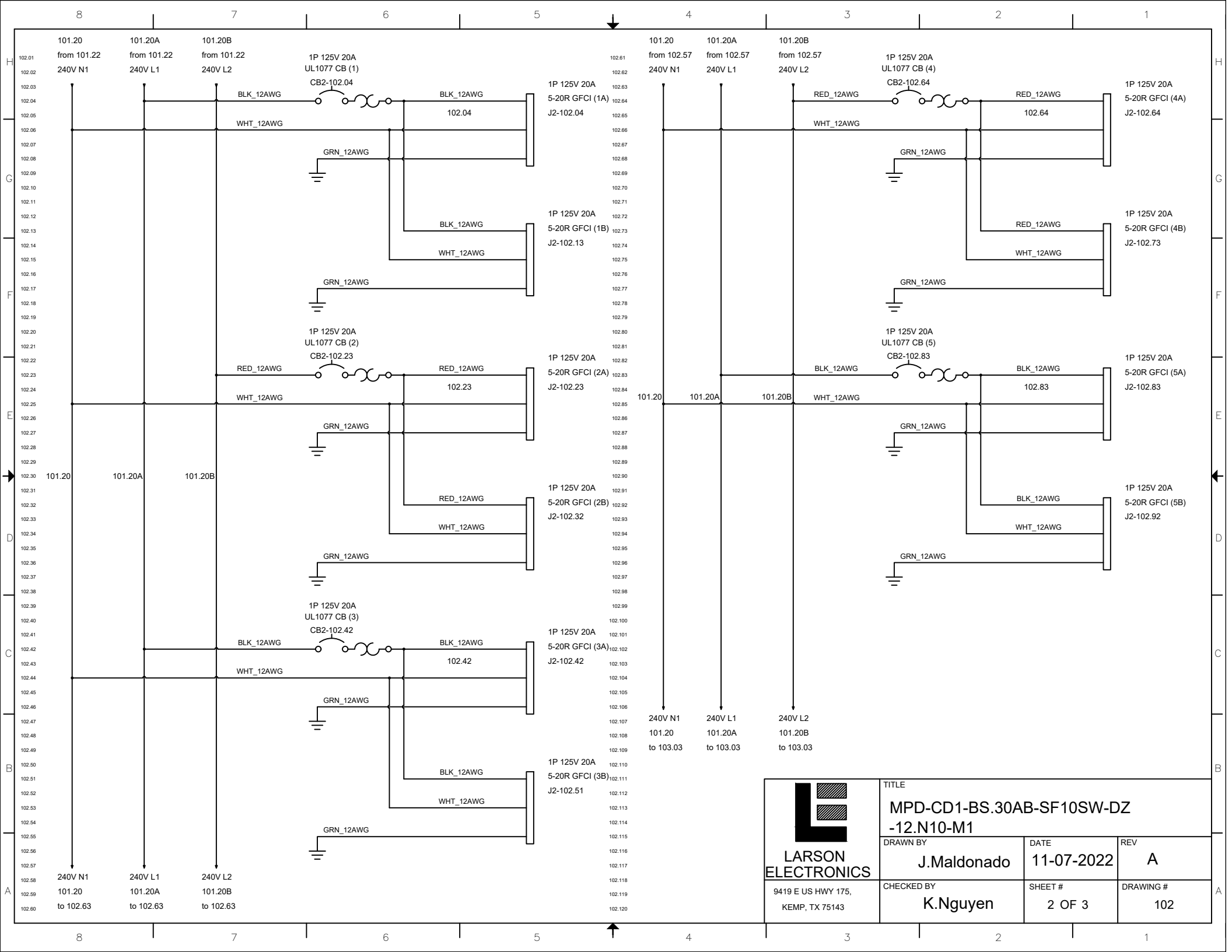
REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	11-07-2022

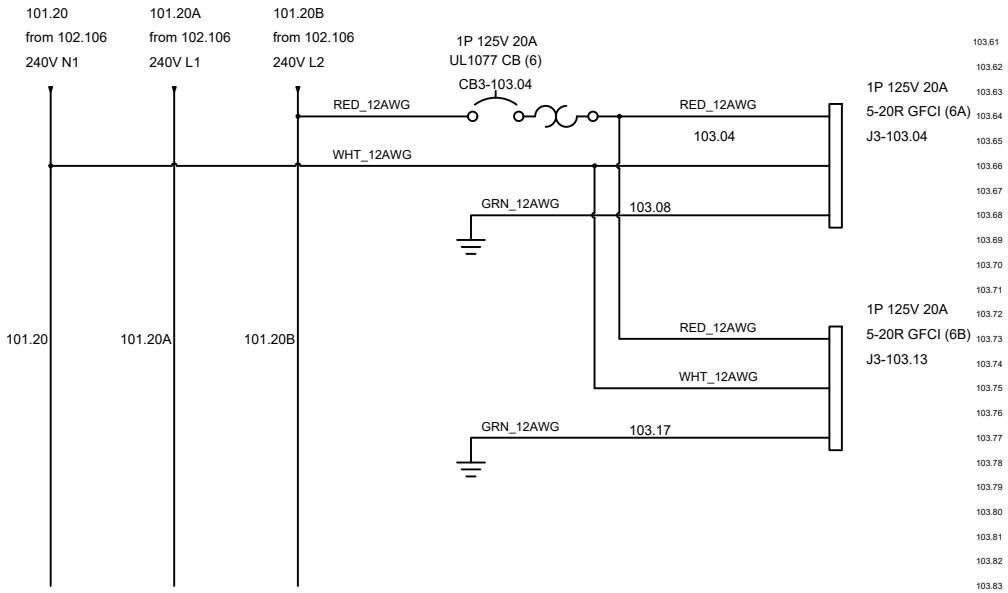
MPD-CD1-BS.30AB-SF10SW-DZ-12.N10-M1

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LARSON ELECTRONICS 9419 E US HWY 175, KEMP, TX 75143	TITLE: MPD-CD1-BS.30AB-SF10SW-DZ-12.N10-M1		
	DRAWN BY: J.Maldonado	DATE: 11-07-2022	REV: A
	CHECKED BY: K.Nguyen	SHEET #: 1 OF 3	DRAWING #: 101


101.20
from 101.22
240V N1
101.20A
from 101.22
240V L1
101.20B
from 101.22
240V L2
1P 125V 20A
UL1077 CB (1)
CB2-102.04
BLK_12AWG
WHT_12AWG
GRN_12AWG
102.04
1P 125V 20A
5-20R GFCI (1A)
J2-102.04
1P 125V 20A
5-20R GFCI (1B)
J2-102.13
1P 125V 20A
UL1077 CB (2)
CB2-102.23
RED_12AWG
102.23
1P 125V 20A
5-20R GFCI (2A)
J2-102.23
1P 125V 20A
5-20R GFCI (2B)
J2-102.32
1P 125V 20A
UL1077 CB (3)
CB2-102.42
102.42
1P 125V 20A
5-20R GFCI (3A)
J2-102.42
1P 125V 20A
5-20R GFCI (3B)
J2-102.51
240V N1
101.20
to 102.63
240V L1
101.20A
to 102.63
240V L2
101.20B
to 102.63
101.20
from 102.57
240V N1
101.20A
from 102.57
240V L1
101.20B
from 102.57
240V L2
1P 125V 20A
UL1077 CB (4)
CB2-102.64
102.64
1P 125V 20A
5-20R GFCI (4A)
J2-102.64
1P 125V 20A
5-20R GFCI (4B)
J2-102.73
1P 125V 20A
UL1077 CB (5)
CB2-102.83
102.83
1P 125V 20A
5-20R GFCI (5A)
J2-102.83
1P 125V 20A
5-20R GFCI (5B)
J2-102.92
240V N1
101.20
to 103.03
240V L1
101.20A
to 103.03
240V L2
101.20B
to 103.03
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9419 E US HWY 175,
KEMP, TX 75143
TITLE
MPD-CD1-BS.30AB-SF10SW-DZ
-12.N10-M1
DRAWN BY
J.Maldonado
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K.Nguyen
SHEET #
2 OF 3
DRAWING #
102



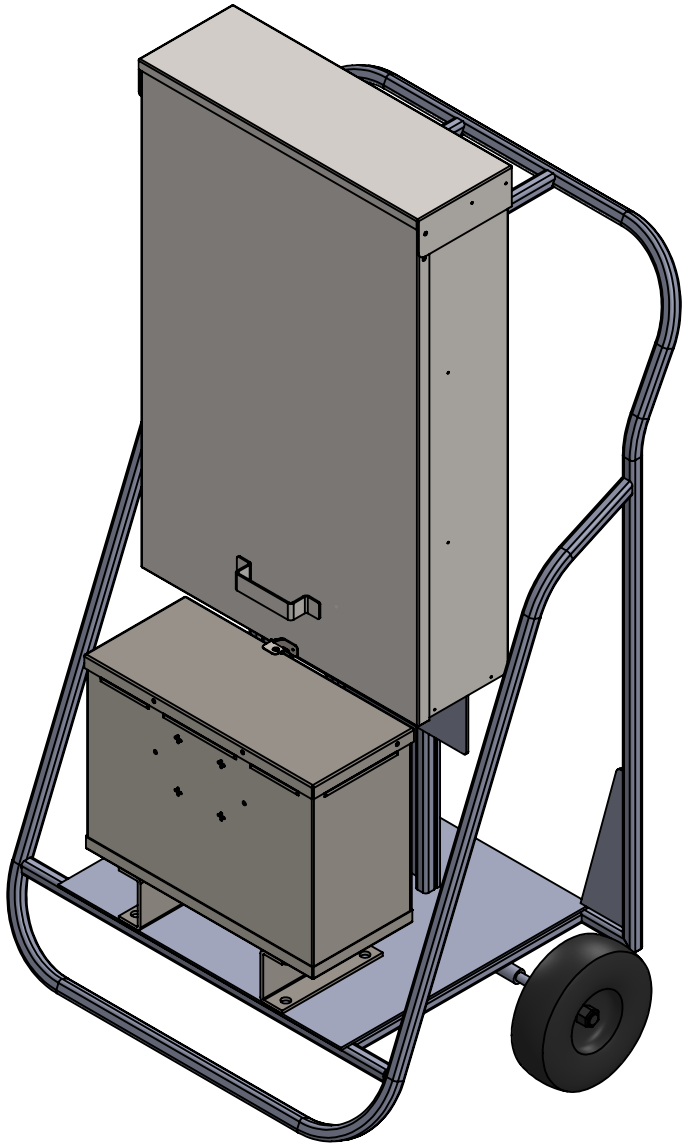
TAGS	QTY	CATALOG	DESCRIPTION
J1-101.28	1	UNV00007136	2 HOLE GROUND LUG
J2-102.04 J2-102.13 J2-102.23 J2-102.32 J2-102.42 J2-102.51 J2-102.64 J2-102.73 J2-102.83 J2-102.92 J3-103.04 J3-103.13	12	UNV00014533	5-20R 1P 20A 125V GFCI RECEPTACLE
CB2-102.04 CB2-102.23 CB2-102.42 CB2-102.64 CB2-102.83 CB3-103.04	6	UNV00015144	1P 20A 120/240VAC UL1077 DIN RAIL MOUNT BREAKER
CB1-101.08	1	UNV00015151	2P 30A 480V UL489 MCCB
T11-101.18 T11-101.18A T11-101.18B	3	UNV00015084	POWER DISTRIBUTION BLOCK 175A 600V 1-4 OPENING
CBL1-101.08	26FT	UNV00007526	10/3 SOOW CABLE
XF1-101.10	1	UNV00013878	1PH 10KVA 460 - 240/120V N3R TRANSFORMER

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KEMP, TX 75143

TITLE: MPD-CD1-BS.30AB-SF10SW-DZ -12.N10-M1

DRAWN BY	DATE	REV
J.Maldonado	11-07-2022	A
CHECKED BY	SHEET #	DRAWING #
K.Nguyen	3 OF 3	103



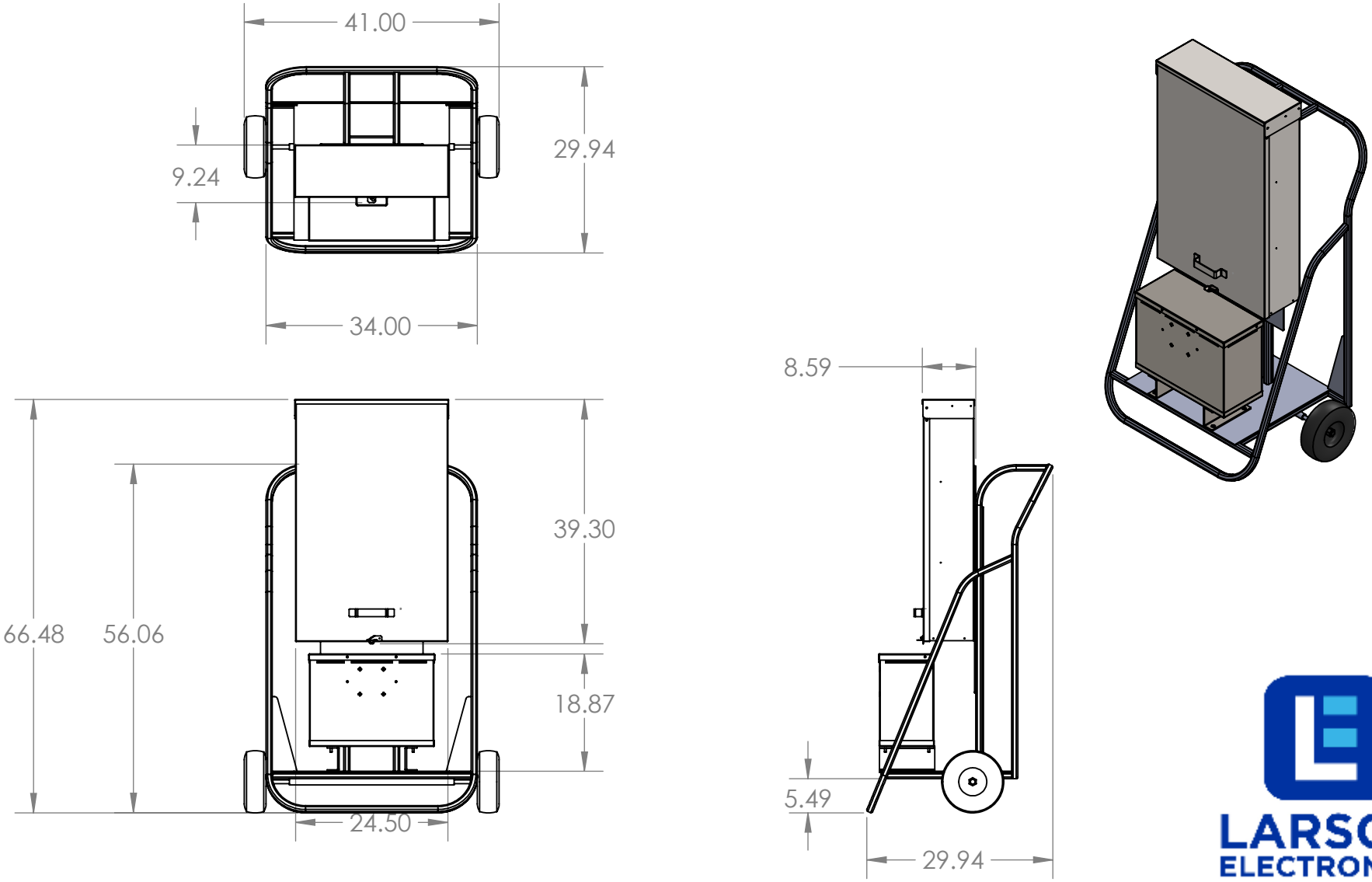
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PART NUMBER:
MPD-CD1-XXX

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DIMENSIONS ARE IN INCHES			SIZE A	REV 1
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PART NUMBER:

MPD-CD1-XXX

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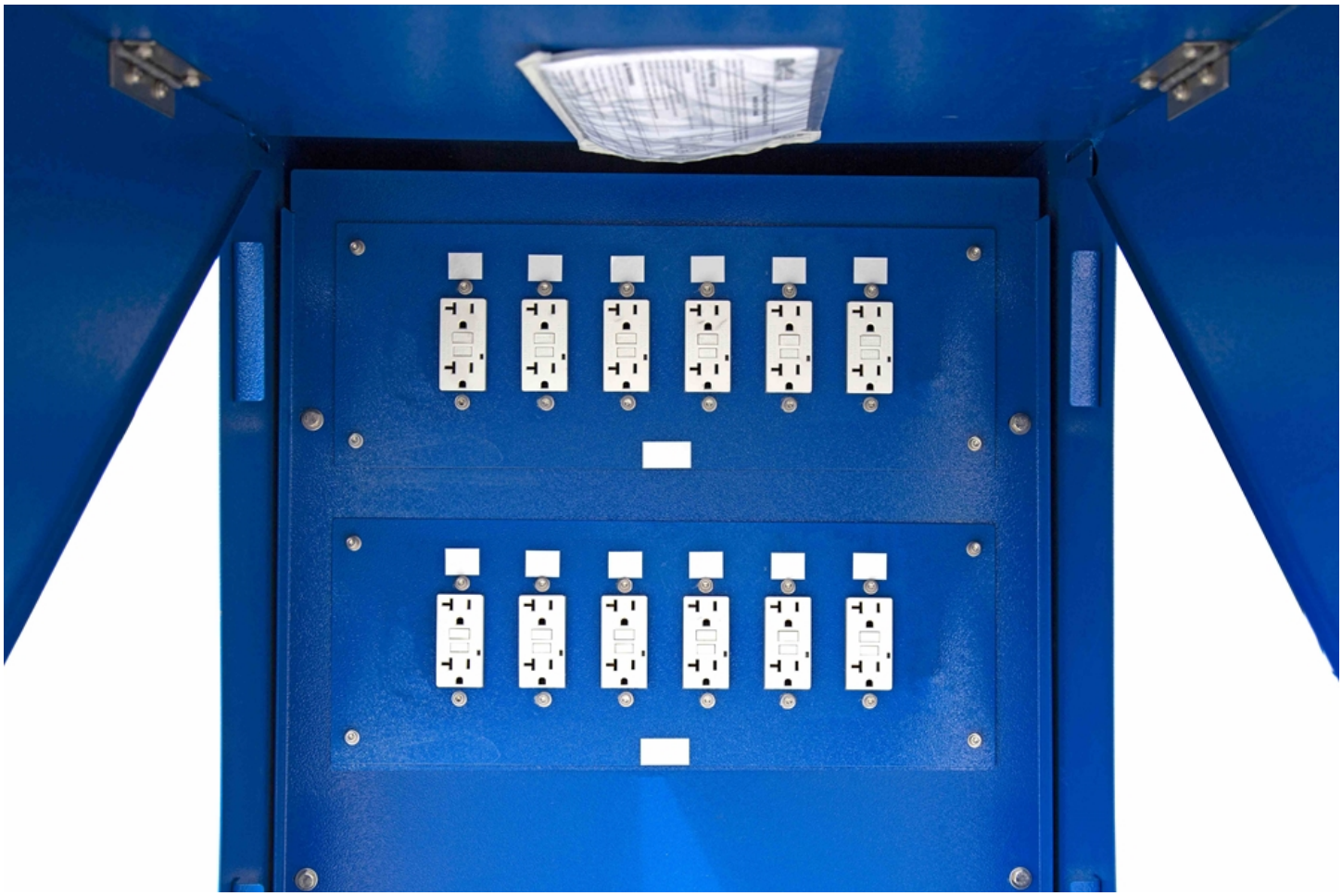
DIMENSIONS ARE IN INCHES			SIZE A	REV
DO NOT SCALE DRAWING	DATE	4/1/2020	SCALE: NTS	SHEET 2 OF 2

5 4 3 2 1


CAUTION
ON / OFF
WARNING
CAUTION
ON / OFF
WARNING
LARSON


CAUTION
ON / OFF
WARNING
CAUTION
ON / OFF
WARNING
LARSON
ELECTRONICS





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

LARSON ELECTRONICS LLC • 9419 E US HWY 175 • KEMP, TX 75143
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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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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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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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

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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)