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-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1

25 KVA Distribution Skid, 480V 3PH-120/240 1PH, (1) AR642 (1) L6-30R (1) L5-30R (10) 5-20R

Product ID: 150064



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-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1 -Temporary Power Distribution System

Line-in Cord: 25' #4/4 AWG TYPE W Cord [2000V]
Line-in Cord Cap: Not Included - Requires Minimum Use Service Device 120A @ [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 120A MLO N3R
Primary Breaker: (1) 60A 2P MCCB [480V]; (1) 60A 3P MCCB [480V]
Primary Outlets: (1) AR642 UL 1686 60A Pin-Sleeve [480V]
Primary Protection: MCCB Circuit Breakers
Transformer (KVA): 25KVA 480V to 120/240V 1PH N3R
Secondary Voltage (V): 120/240V AC
Secondary Phase (PH): 1-Phase (1PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: 120/240V 1PH 104.2A MLO N3R
Secondary Breakers: (1) 30A 2P GFCI-MCB [250V]; (1) 30A 1P GFCI-MCB [125V]; (5) 20A 1P GFCI-MCB [125V]
Secondary Outlets: (1) L6-30R NEMA Twist-Lock [250V]; (1) L5-30R NEMA Twist-Lock [125V]; (10) 5-20R NEMA DPLX [125V]
Secondary Protection: MCB-GFCI Circuit Breakers
Form Factor: Blue Powder Coated Steel Closed Cube w/Casters
Doors: (2)
Frame Material: Steel
Frame Finish: High-strength TGIC Polyester Powder Coated Blue
Cart Handle Orientation: Horizontal
Lifting Eyelet: (4) Top Located

Ratings

Max Primary OCP: 120A @ 480V
Max Secondary Output: 104.2A @ 240V
NEMA 3R Indoor or Outdoor Use
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- Requirements

Contact us for special requirements

Skid Pockets: (2) Bottom Located

Casters: (4) Locking Casters

Dimensions: 58.5"-L X 33.5"-W X 73.7"-H

Weight: 1650 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.

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

Made in Texas

The Larson Electronics MPD-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1 Power Distribution Substation converts three-phase 480V AC electrical current to single-phase 120/240V AC. This fully enclosed power distribution 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-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1 temporary power distribution system gives operators the ability to power their 120 volt equipment from a single system.

Operation:

- Primary Voltage: 3-phase 480V AC, Delta
- Primary Receptacles: (1) AR642 UL 1686 60A Pin-Sleeve [480V]
- Transformer: 25KVA 480V to 120/240V 1PH N3R
- Secondary Voltage: 1-phase 120/240V AC
- Secondary Receptacles: (1) L6-30R NEMA Twist-Lock [250V]; (1) L5-30R NEMA Twist-Lock [125V]; (10) 5-20R NEMA DPLX [125V]

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

Protective Construction: This temporary power distribution unit is fully enclosed and is ruggedly constructed to withstand demanding conditions and industrial applications. The system is accessible via two doors at each end for access to breakers on the panels and a center-located door for access to receptacles. The model is equipped with bottom-located forklift skid pockets and four top-located lifting eyelets, which allows easy lifting with cable or chain hooks. Four locking casters at the base provides mobility around work sites.

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 cube style frame resulting in an extremely stable, durable and mobile power distribution platform. 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.

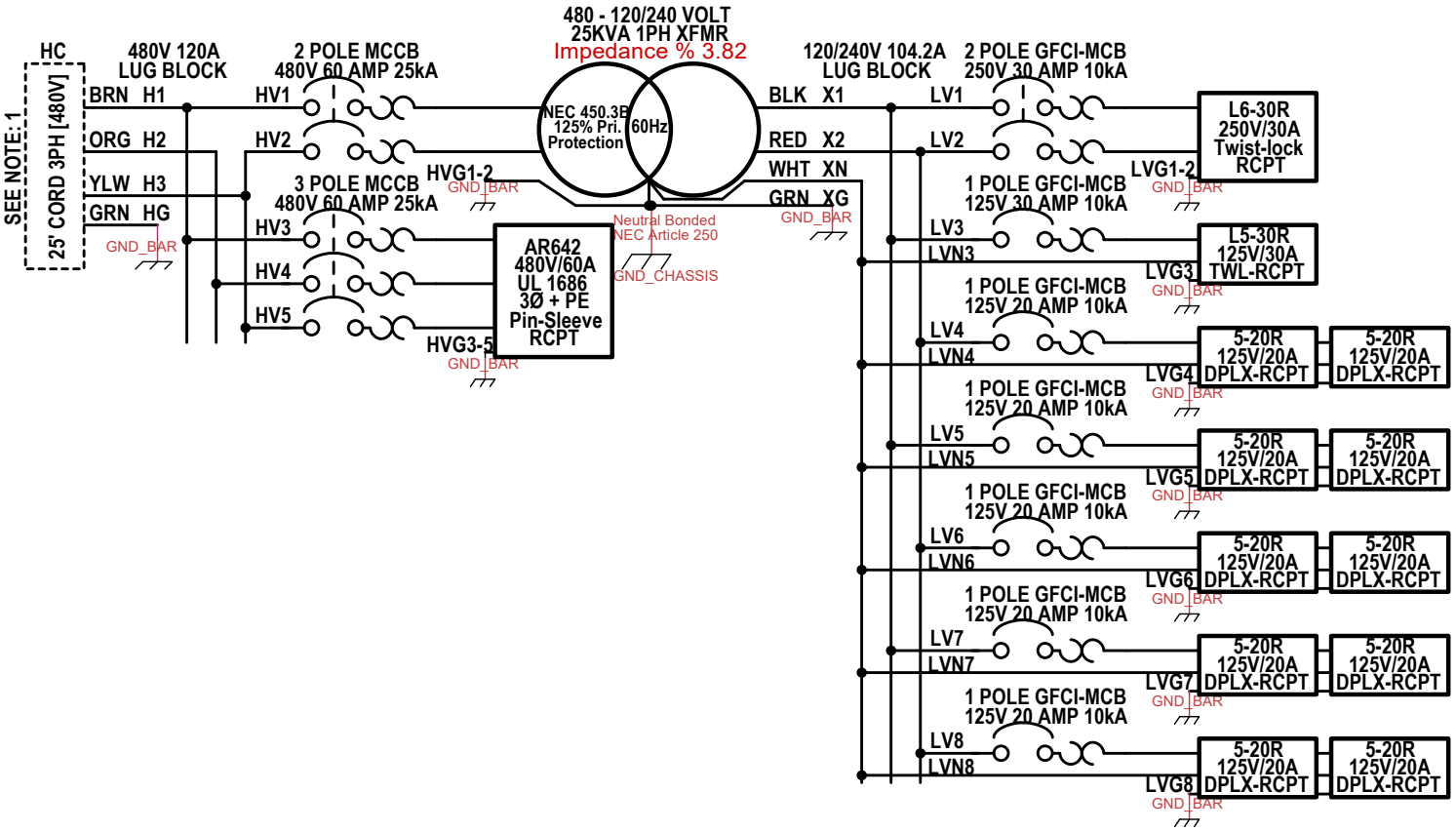
Grounding: Transformer is grounded to the frame and we provide a grounding lug on the frame for the earth ground.

~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

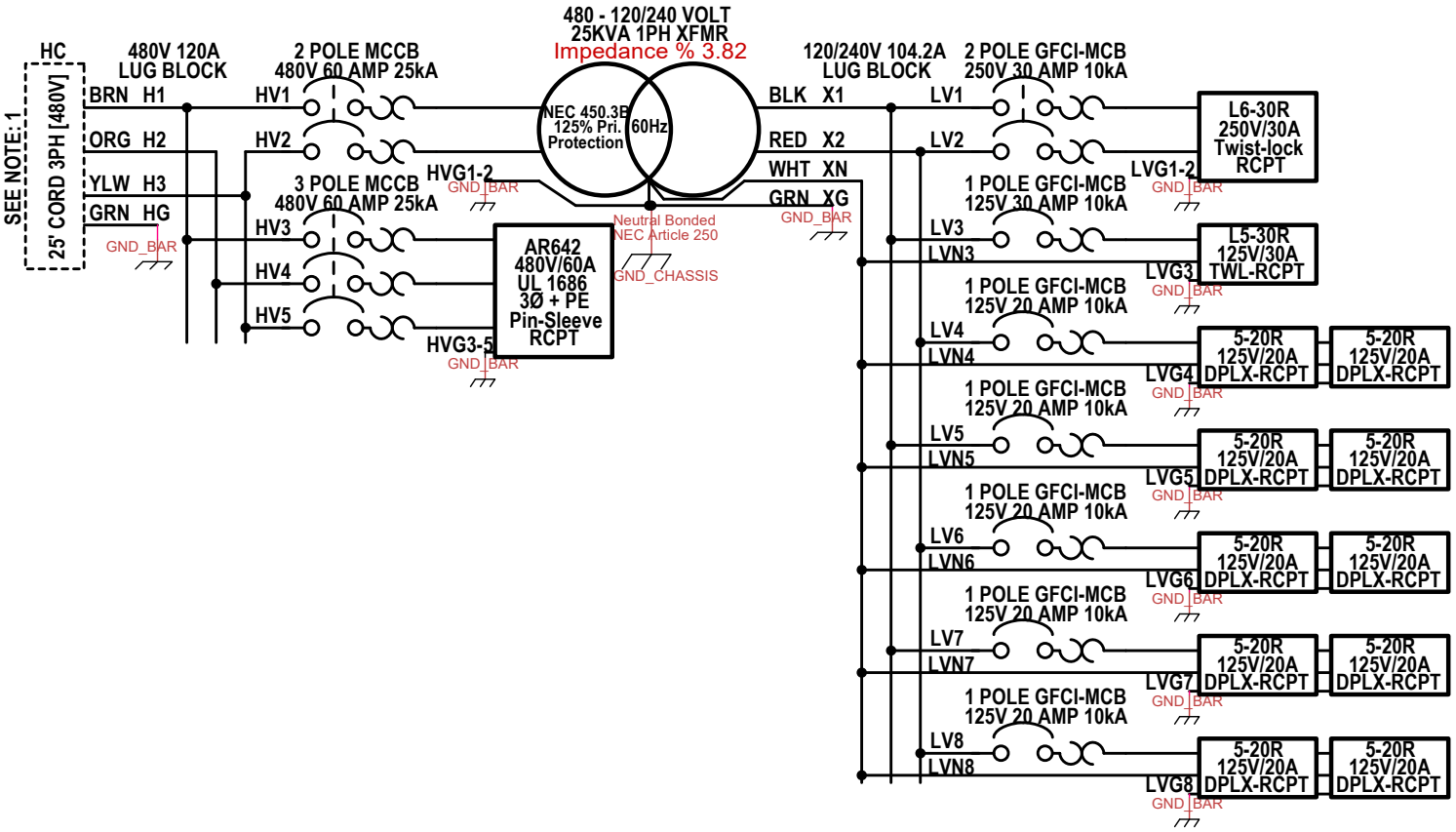
ID	TYPE	DESCRIPTION	WIRE SIZE
HC	CORD	2000V TYPE W	#4/4 AWG cu
HV1	CABLE	600V THHN BROWN	#6 AWG cu
HV2	CABLE	600V THHN YELLOW	#6 AWG cu
HV3	CABLE	600V THHN BROWN	#6 AWG cu
HV4	CABLE	600V THHN ORANGE	#6 AWG cu
HV5	CABLE	600V THHN YELLOW	#6 AWG cu
HVG1-2	CABLE	600V THHN GREEN	#10 AWG cu
HVG3-5	CABLE	600V THHN GREEN	#10 AWG cu
X1	CABLE	600V THHN BLACK	#2 AWG cu
X2	CABLE	600V THHN RED	#2 AWG cu
XN	CABLE	600V THHN WHITE	#2 AWG cu
XG	CABLE	600V THHN GREEN	#8 AWG cu
LV1	CABLE	600V THHN BLACK	#10 AWG cu
LV2	CABLE	600V THHN RED	#10 AWG cu
LV3	CABLE	600V THHN BLACK	#10 AWG cu
LV4	CABLE	600V THHN RED	#12 AWG cu
LV5	CABLE	600V THHN BLACK	#12 AWG cu
LV6	CABLE	600V THHN RED	#12 AWG cu
LV7	CABLE	600V THHN BLACK	#12 AWG cu
LV8	CABLE	600V THHN RED	#12 AWG cu
LVG1-2	CABLE	600V THHN GREEN	#10 AWG cu
LVG3	CABLE	600V THHN GREEN	#10 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
LVG7	CABLE	600V THHN GREEN	#12 AWG cu
LVG8	CABLE	600V THHN GREEN	#12 AWG cu
LVN3	CABLE	600V THHN WHITE	#10 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
LVN7	CABLE	600V THHN WHITE	#12 AWG cu
LVN8	CABLE	600V THHN WHITE	#12 AWG cu

USER NOTES:

1) USE MINIMUM 480V 120A INPUT SERVICE DEVICE

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

Title: MPD-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1		
Author: David Downs		
File: 3PH 25KVA 120-240V 104.2A 1PH MLO 1xAR64		Document: RV22
Revision: 1.0	Date: 01/17/2018	Sheets: 1 of 1



WIRE LEGEND

ID	TYPE	DESCRIPTION	WIRE SIZE
HC	CORD	2000V TYPE W	#4/4 AWG cu
HV1	CABLE	600V THHN BROWN	#6 AWG cu
HV2	CABLE	600V THHN YELLOW	#6 AWG cu
HV3	CABLE	600V THHN BROWN	#6 AWG cu
HV4	CABLE	600V THHN ORANGE	#6 AWG cu
HV5	CABLE	600V THHN YELLOW	#6 AWG cu
HVG1-2	CABLE	600V THHN GREEN	#10 AWG cu
HVG3-5	CABLE	600V THHN GREEN	#10 AWG cu
X1	CABLE	600V THHN BLACK	#2 AWG cu
X2	CABLE	600V THHN RED	#2 AWG cu
XN	CABLE	600V THHN WHITE	#2 AWG cu
XG	CABLE	600V THHN GREEN	#8 AWG cu
LV1	CABLE	600V THHN BLACK	#10 AWG cu
LV2	CABLE	600V THHN RED	#10 AWG cu
LV3	CABLE	600V THHN BLACK	#10 AWG cu
LV4	CABLE	600V THHN RED	#12 AWG cu
LV5	CABLE	600V THHN BLACK	#12 AWG cu
LV6	CABLE	600V THHN RED	#12 AWG cu
LV7	CABLE	600V THHN BLACK	#12 AWG cu
LV8	CABLE	600V THHN RED	#12 AWG cu
LVG1-2	CABLE	600V THHN GREEN	#10 AWG cu
LVG3	CABLE	600V THHN GREEN	#10 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
LVG7	CABLE	600V THHN GREEN	#12 AWG cu
LVG8	CABLE	600V THHN GREEN	#12 AWG cu
LVN3	CABLE	600V THHN WHITE	#10 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
LVN7	CABLE	600V THHN WHITE	#12 AWG cu
LVN8	CABLE	600V THHN WHITE	#12 AWG cu

USER NOTES:

1) USE MINIMUM 480V 120A INPUT SERVICE DEVICE

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

Title: MPD-CW1-BW.120AB-DE25SZ-ZZ-1.V04.L09.L05-10.N09-M1		
Author: David Downs		
File: 3PH 25KVA 120-240V 104.2A 1PH MLO 1xAR64		Document: RV22
Revision: 1.0	Date: 01/17/2018	Sheets: 1 of 1






SIEMENS
ON
OFF
CAUTION
HIGH VOLTAGE



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

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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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