Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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MPD-CD1-BS.45AB-DE30YT-EZ-2.L35-2.L09-6.N10-M1

30 KVA Portable Distribution Cart, 480V - 208Y/120 3PH, (2) L21-30R (2) L6-30R (6) 5-20R NEMA Duplex Outlets, 25' 8/4 SOOW Input Cord, NEMA 3R

Product ID: 332403

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MPD-CD1-BS.45AB-DE30YT-EZ-2.L35-2.L09-6.N10-M1

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.45AB-DE30YT-EZ-2.L35-2.L09-6.N10-M1 - Temporary Power Distribution System

Line-in Cord: 25' #8/4 SOOW Cable [600V]
Line-in Cord Cap: Not Included - Requires Minimum Use Device 45A @ [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 45A MCCB N3R
Primary Breaker(s): N/A
Primary Outlet(s): N/A
Primary Protection: MCCB Circuit Breaker
Transformer (KVA): 30KVA 480V to 208Y/120V 3PH N3R
Secondary Voltage (V): 208Y/120V AC Wye
Secondary Phase (PH): 3-Phase (3PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: 208Y/120V 3PH 83.3A MLO N3R
Secondary Breaker(s): (2) 30A 3P MCB [250V]; (2) 30A 2P MCB [250V]; (6) 20A 1P MCB [125V]
Secondary Outlet(s): (2) L21-30R NEMA Twist-Lock Receptacles [208Y/120V]; (2) L6-30R NEMA Twist-Lock Receptacles [250V]; (6) 5-20R NEMA Duplex-GFCI [125V]

Ratings

Max Primary OCP: 45A @ 480V
Max Secondary Output: 83.3A @ 208V
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

Secondary Protection: MCB Circuit Breakers; GFCI's
Form Factor: Blue Powder Coated MGL Dolly Cart w/ Run 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 Wrinkle Black
Cart Handle Orientation: Horizontal
Lifting Eyelet: (1) Center Point
No-flat Tires: (2) Black
Dimensions: (*Please note that dimensions are approximate and subject to change*) 48"-W x 42"-D x 66.5"-H
Weight: (*Please note that weight is approximate and subject to change*) 950 lb
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 - Special Requirements
Contact us for special requirements
Intl: 1-214-616-6180
Toll Free: 1-800-369-6671

Fax: 1-903-765-7664

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-CD1-BS.45AB-DE30YT-EZ-2.L35-2.L09-6.N10-M1 from Larson Electronics is a Temporary Power Distribution System that converts three-phase 480V AC Delta electrical current into three-phase 208Y/120V AC Wye. This unit provides operators the ability to safely tap into and distribute 480V AC Delta 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.45AB-DE30YT-EZ-2.L35-2.L09-6.N10-M1 temporary power distribution system gives operators the ability to power their 208 volt and 120 volt equipment from a single system.

Operation:

• Primary Voltage: 480V AC Delta 3PH

• Primary Panel: 480V 3PH 45A MCCB N3R

• Primary Breaker(s): N/A

• Primary Outlet(s): N/A

• Transformer: 30KVA 480V to 208Y/120V 3PH N3R

• Secondary Voltage: 208Y/120V AC Wye 3PH

• Secondary Panel: 208Y/120V 3PH 83.3A MLO N3R

• Secondary Breaker(s): (2) 30A 3P MCB [250V]; (2) 30A 2P MCB [250V]; (6) 20A 1P MCB [125V]

• Secondary Outlet(s): (2) L21-30R NEMA Twist-Lock Receptacles [208Y/120V]; (2) L6-30R NEMA Twist-Lock Receptacles [250V]; (6) 5-20R NEMA Duplex-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 wrinkle black 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 blue, 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 dolly cart style frame resulting in an extremely stable, durable, and mobile power distribution platform. Two rubber tires and a dolly 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 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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Links (Click on the below items to view):

- **ANSI Certificate 1**(https://www.larsonelectronics.com/images/product/ANSICert1/332403.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/332403.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/332403.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/332403.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/332403.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com/images/product/Cert2/332403.PDF)
- **Certificate 5, Misc**(https://www.larsonelectronics.com/images/product/Cert5/332403.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/332403.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/332403.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/332403.PDF)
- **Single Line Diagram (One-Line Diagram)**(https://www.larsonelectronics.com/images/product/Oneline/332403.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/332403.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/332403.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/332403.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/332403.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/332403.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/332403.JPG)
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- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/332403.JPG)
- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/332403.JPG)
- **Video1**(https://www.youtube.com/watch?v=rR-PuRIWQzI)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)