Larson Electronics LLC
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MPD-CM1-309.30AB-SE2SV-AC-1.N10-M1

2 KVA Mini Portable Power Distro, 480D 3PH - 120V 1PH, (1) 5-20R Outlet, 10' 12/4 SOOW w/ 430P7W Plug, NEMA 3R

Product ID: 301576

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



Image: MPD-CM1-309.30AB-SE2SV-AC-1.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.

This unit is Made In USA - Manufactured in Texas

MPD-CM1-309.30AB-SE2SV-AC-1.N10-M1 - Portable Spider Box

Line-in Cord: 10' #12/4 AWG SOOW Cord [600V]
Line-in Cord Cap: 430P7W IEC 60309 30A Pin & Sleeve Plug [480V]
Primary Voltage (V): 480V AC Delta
Primary Phase (PH): 3-Phase (3PH)
Primary Frequency (HZ): 60 Hz (60-cycles)
Primary Panel: 480V 3PH 10A MCB N3R
Primary Breaker(s): N/A
Primary Outlet(s): N/A
Primary Protection: MCB Circuit Breaker
Transformer (KVA): 2KVA 480V to 120V 1PH N3R
Secondary Voltage (V): 120V AC
Secondary Phase (PH): 1-Phase (1PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: N/A
Secondary Breaker(s): (1) 20A 1P MCB [125V]
Secondary Outlet(s): (1) 5-20R NEMA Duplex-GFCI [125V]
Secondary Protection: MCB Circuit Breaker

Ratings

Max Primary OCP: 10A @ 480V
Max Secondary Output: 20A @ 120V
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

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.

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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-CM1-309.30AB-SE2SV-AC-1.N10-M1 from Larson Electronics is a Portable Power Distribution System that converts three-phase 480V AC Delta input voltage to single-phase 120V AC output 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 10A MCB N3R

• Primary Breaker(s): N/A

• Primary Outlet(s): N/A

• Transformer: 2KVA 480V to 120V 1PH N3R

• Secondary Voltage: 120V AC 1PH

• Secondary Panel: N/A

• Secondary Breaker(s): (1) 20A 1P MCB [125V]

• Secondary Outlet(s): (1) 5-20R NEMA Duplex-GFCI [125V]

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

The MPD-CM1-309.30AB-SE2SV-AC-1.N10-M1 portable wheeled spider box from Larson Electronics is built to provide operators with a reliable source of 120V AC 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-CM1-309.30AB-SE2SV-AC-1.N10-M1 is ideal for powering 120V AC 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 5-20R 125V NEMA GFCI duplex receptacle that provides a sealed and secure connection for up to 1 device. The receptacle provides 120V for powering high voltage lighting and equipment without the need for running additional extension cords. The MPD-CM1-309.30AB-SE2SV-AC-1.N10-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 10' 12/4 AWG SOOW cord with a 30-amp 480V 430P7W IEC 60309 pin/sleeve plug brings three-phase 480V AC Delta power to the primary side of the system and passes power to the transformer. The NEMA 3R 2 KVA transformer converts three-phase 480V AC Delta to single-phase 120V AC and passes the current to the secondary side of the system. The secondary side has a 20-amp 1-pole 125V miniature circuit breaker protecting a 5-20R 125V NEMA GFCI duplex outlet.

Protective Construction: The housing on the MPD-CM1-309.30AB-SE2SV-AC-1.N10-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.

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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/ANSICert1/301576.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/301576.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/301576.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/301576.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/301576.PDF)
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- **Certificate 5, Misc**(https://www.larsonelectronics.com/images/product/Cert5/301576.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/301576.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/301576.PDF)
- **Single Line Diagram (One-Line Diagram)**(https://www.larsonelectronics.com/images/product/Oneline/301576.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/301576.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/301576.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/301576.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/301576.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/301576.JPG)
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