Larson Electronics LLC
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MPD-CD1-BS.20AB-DE7.5SZ-CZ-2.N10-M1

7.5 KVA Temporary Power Distribution, 480V 3PH - 120/240V 1PH, (2) 5-20R GFCI Duplex Outlets, 12' #12/4 SOOW Cord, NEMA 3R

Product ID: 326647

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



Image: MPD-CD1-BS.20AB-DE7.5SZ-CZ-2.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.20AB-DE7.5SZ-CZ-2.N10-M1 - Temporary Power Distribution System

Line-in Cord: 12' #12/4 AWG SOOW Cord [600V]
Line-in Cord Cap: Not Included – Requires Minimum Use Device 20A @ [480V] (**Customer Provided**)
Primary Voltage (V): 480V AC Delta
Primary Phase (PH): 3-Phase (3PH)
Primary Frequency (HZ): 60 Hz (60-cycles)
Primary Panel: N/A
Primary Breaker(s): (1) 20A 3P MCCB [480V]
Primary Outlet(s): N/A
Primary Protection: MCCB Circuit Breaker
Transformer (KVA): 7.5KVA 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 31.3A MLO N3R
Secondary Breaker(s): (2) 20A 1P MCB [125V]
Secondary Outlet(s): (2) 5-20R NEMA Duplex-GFCI [125V]
Secondary Protection: MCB Circuit Breakers; GFCI's
Form Factor: Powder Coated Steel Dolly Cart w/ Run Flat Tires
Doors: (2)

Ratings

Max Primary OCP: 20A @ 480V

Max Secondary Output: 31.3A @ 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

Frame Material: Carbon Steel
Frame Finish: High-Strength TGIC Polyester Powder Coated Blue
Cart Handle Orientation: Horizontal
Lifting Eyelet: (1) Top Located
Skid Pockets: (2) Bottom Located
Casters: (4) Locking Casters
Dimensions: -
Weight: (*Please note that weight is approximate and subject to change*) 1,250 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
Toll Free: 1-800-369-6671
Intl: 1-214-616-6180
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.20AB-DE7.5SZ-CZ-2.N10-M1 from Larson Electronics is a Temporary Power Distribution System that converts three-phase 480V AC Delta electrical current into single-phase 120/240V AC. 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.20AB-DE7.5SZ-CZ-2.N10-M1 temporary power distribution system gives operators the ability to power their 240 volt and 120 volt equipment from a single system. On the primary side, operators connect 480 volt line-in power via 12' of #12/4 SOOW cord. On the secondary side, operators connect to two 5-20R duplex GFCI receptacles for 120V equipment.

Operation:

• Primary Voltage: 480V AC Delta 3PH

• Primary Panel: N/A

• Primary Breaker(s): (1) 20A 3P MCCB [480V]

• Primary Outlet(s): N/A

• Transformer: 7.5KVA 480V to 120/240V 1PH N3R

• Secondary Voltage: 120/240V AC 1PH

• Secondary Panel: 120/240V 1PH 31.3A MLO N3R

• Secondary Breaker(s): (2) 20A 1P MCB [125V]

• Secondary Outlet(s): (2) 5-20R NEMA Duplex-GFCI [125V]

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

A 12' #12/4 SOOW line-in cord brings three-phase 480V AC Delta power to the primary side of

the system, which contains a 20-amp 3-pole 480V primary breaker, and passes power through to the transformer. The NEMA 3R 7.5 KVA transformer converts three-phase 480V AC Delta to single-phase 120/240V AC and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 31.3-amp single-phase 120/240V AC main lug only panel. This secondary panel contains two 20-amp 1-pole 125V miniature circuit breakers protecting two 125V 5-20R duplex GFCI receptacles.

Protective Construction: 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 rubber tires and a 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **ANSI Certificate 1**(https://www.larsonelectronics.com/images/product/ANSICert1/326647.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/326647.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/326647.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/326647.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/326647.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com/images/product/Cert2/326647.PDF)
- **Certificate 5, Misc**(https://www.larsonelectronics.com/images/product/Cert5/326647.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/326647.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/326647.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/326647.PDF)
- **Single Line Diagram (One-Line Diagram)**(https://www.larsonelectronics.com/images/product/Oneline/326647.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/326647.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/326647.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/326647.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/326647.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/326647.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/326647.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/326647.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)