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MPD-15K-480-120.240-1X2P.30A-2X2P.50A-6X1P.20A-50C

15 KVA Power Substation - 480V to 120/240V 1PH - (3) CS6369 (6) 5-20R Duplex Receptacles

Product ID: 152558

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



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-15K-480-120.240-1X2P.30A-2X2P.50A-6X1P.20A-50C Power Transformer

- **Line-In Cord: 50` #8 SOOW Cord**
- **Line-In Cord Cap: Customer Provided**
- **Primary Voltage: 480V 1PH**
- **Primary Disconnect: 480V 3PH 60A Fused @ 40A N3R**
- **Primary Panel: -**
- **Primary Breakers: -**
- **Primary Receptacles: -**
- **Primary Protection: Disconnect Switch, Time Delay Fuses**
- **Transformer: 15KVA 480V to 120/240V 1PH N3R**
- **Secondary Voltage: 120/240V 1PH**
- **Secondary Panel: 120/240V 1PH 100A MLO N3R**
- **Secondary Breakers: (2) 50A 2P [250V], (1) 30A 2P [250V], (6) 20A 1P [125V]**
- **Secondary Receptacles: (2) 50A CS6369 [125/250V], (6) 20A 5-20R GFCI Duplex [125V]**
- **Secondary Protection: GFCI, Weatherproof Covers**
- **Form Factor: Square tube frame w/ 1/8" side walls, hinged access doors, skid pockets, top pick eye & locking 8” locking casters**
- **Frame Materials: Powder coated steel frame**
- **Dimensions: 48” X 48” X 62”**
- **Weight: 550 pounds**

Ratings/Approvals

- **Max OCP PDU/Primary: 40A @ 480V**
- **Max Secondary Output: 62.5A @ 240V**
- UL 1640 Portable Power-Distribution Equipment
- NEMA 3R Indoor or Outdoor Use
- Made in the USA

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

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Larson Electronics manufacture 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.

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 Larson Electronics MPD-15KVA-480-120.240-1X2P.30A-2X2P.50A-6X1P.20A-5 power distribution substation converts 480V AC electrical current into single phase 120/240V 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*

Portable Power Distribution Purpose and Use

The MPD-15KVA-480-120.240-1X2P.30A-2X2P.50A-6X1P.20A-5 portable 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 bring 480V three phase power into the unit using 50` of #8 SOOW cord. On the secondary side, operators connect to two CS6369 receptacles for 120/240V equipment and to six 5-20R GFCI duplex receptacles for 120V equipment. All receptacles are equipped with weatherproof covers.

Operation: A 50` #8 SOOW cord brings 480V three phase power to the NEMA 3R 60-amp 480V three phase primary disconnect, which contains two 40-amp time delay fuses, and passes 480V single phase through to the transformer. The NEMA 3R 15 KVA transformer converts 480V to 120/240V single phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 100-amp 120/240V single phase main lug only panel. This secondary panel contains one 30-amp, 2-pole, 250V breaker, two 50-amp, 2-pole, 250V breakers protecting two 50-amp, 125/250V CS6369 receptacles, and six 20-amp, 1-pole breakers protecting six 20-amp, 125V, 5-20R GFCI duplex receptacles.



Click Photo to Enlarge



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Click Photo to Enlarge



Click Photo to Enlarge

Protective Construction: Unlike many portable power distribution boxes made of plastic and utilizing thin gauge, low grade metals in their construction, this unit is designed for serious use and is ruggedly constructed to withstand demanding conditions and heavy duty industrial applications. The transformer and load assembly is mounted on a 3/16" thick carbon steel mounting platform and the load center/distribution assembly is mounted to the standard 2" x 2" x 1/8" square carbon steel tubing frame, resulting in an extremely stable, durable and well protected power distribution platform. This model is equipped with forklift skid pockets, locking casters, and a top located lifting eyelet which allows easy lifting with cable or chain hooks. This can be replaced for an additional cost with stainless steel, hot dip galvanized steel, or

aluminum depending on the customer's needs. Larger units are available upon request and can be equipped with skids or trailer mounted.


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Certification: Larson Electronics is a UL 1640 panel shop and certified to build portable power distribution systems. 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)



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MPD-15K-480-120.240-1X2P.30A-2X2P.50A-6X1P.20A-50C

Product ID: 152558

Harmonized System (HS) Code: 8504.21.0040

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**
- **Certificate 1, Misc**
- **Operations Manual**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**