Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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www.LarsonElectronics.com
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MPD-CW1-309.90A-DC75YT-KQ-40.N10-M1

75 kVA Mobile Temporary Power Distribution System, 600V to 208Y/120V 3PH, (40) 5-20R GFCI Duplex Outlets, 4100B5W Inlet, NEMA 3R

Product ID: 238542

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



Image: MPD-CW1-309.90A-DC75YT-KQ-40.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-CW1-309.90A-DC75YT-KQ-40.N10-M1 Power Distribution

Line-In Cord: N/A *(Customer Provided)*
Line-In Cord Cap: 4100B5W IEC 60309 100A Pin & Sleeve Male Inlet [600V]
Primary Voltage: 600V AC Delta 3PH
Primary Panel: 600V 3PH 90A MCCB N3R
Primary Breaker(s): N/A
Primary Outlet(s): N/A
Primary Protection: MCCB Circuit Breaker
Transformer: 75KVA 600V to 208Y/120V 3PH N3R
Secondary Voltage: 208Y/120V AC Wye 3PH
Secondary Panel: 208Y/120V 3PH 225A MCCB N3R
Secondary Breaker(s): (40) 20A 1P MCB [125V]
Secondary Outlet(s): (40) 5-20R NEMA GFCI DPLX [125V]
Secondary Protection: MCCB Circuit Breaker; MCB Circuit Breakers; GFCI's
Form Factor: Blue Powder Coated Steel Closed Cube w/ Casters
Frame Materials: Powder Coated Steel Frame
Dimensions: (*Please note that dimensions are approximate and subject to change*) 34"-L x 40"-W x 58"-H

Ratings

Max OCP Primary: 90A @ 600V
Max OCP Secondary: 225A @ 208V
UL 1640 Portable Power-Distribution Equipment
NEMA 3R Indoor / Outdoor Use
Made in the USA

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

Weight: (*Please note that weight is approximate and subject to change*) 600 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.

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

This unit is Made In USA - Manufactured in Texas

The MPD-CW1-309.90A-DC75YT-KQ-40.N10-M1 from Larson Electronics is a Power Distribution Substation that converts three-phase 600V AC Delta electrical current into three-phase 208Y/120V AC Wye. This unit provides operators the ability to safely tap into and distribute 600V 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-CW1-309.90A-DC75YT-KQ-40.N10-M1 portable power distribution system gives operators the ability to power their equipment from a single system. On the primary side, operators connect 600 volt AC Delta using a customer-provided cord. On the secondary side, operators may access a main circuit breaker panel with forty, 20-amp circuit breakers protecting forty 5-20R duplex receptacles.

Operation:

• Primary Voltage: 600V AC Delta 3PH

• Primary Panel: 600V 3PH 90A MCCB N3R

• Primary Breaker(s): N/A

• Primary Outlet(s): N/A

• Transformer: 75KVA 600V to 208Y/120V 3PH N3R

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

• Secondary Panel: 208Y/120V 3PH 225A MCCB N3R

• Secondary Breaker(s): (40) 20A 1P MCB [125V]

• Secondary Outlet(s): (40) 5-20R NEMA GFCI DPLX [125V]

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

Operation: A customer-provided cord brings three-phase 600V AC Delta power via a 4100B5W pin & sleeve male inlet to the NEMA 3R 90-amp molded case circuit breaker panel and passes power through to the transformer. The NEMA 3R 75 KVA transformer converts 600V AC Delta power to three-phase 208Y/120V AC Wye, 60 Hz and passes the current to the secondary side. The secondary side of the transformer is equipped with a NEMA 3R 225-amp, three-phase 208Y/120V molded case circuit breaker panel. This secondary panel

contains forty, 20-amp 1-pole 125V breakers protecting forty, 20-amp NEMA 5-20R duplex receptacles.



Click Photo to Enlarge



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 polyurethane 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.

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)

There are no Faqs

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Harmonized System (HS) Code: 8504.21.0040
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/ANSICert1/238542.PDF)
- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/238542.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/238542.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/238542.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/238542.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com/images/product/Cert2/238542.PDF)
- **Certificate 5, Misc**(https://www.larsonelectronics.com/images/product/Cert5/238542.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/238542.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/238542.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/238542.PDF)
- **Single Line Diagram (One-Line Diagram)**(https://www.larsonelectronics.com/images/product/Oneline/238542.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/238542.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/238542.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/238542.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/238542.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/238542.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/238542.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/238542.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/238542.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/238542.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/238542.JPG)
- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/238542.JPG)
- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/238542.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)