

**45 KVA Transformer Power Distribution - 480V-208Y/120 - 1x 200A 6x 100A 480V - 2x 30A 208Y - 12x 120**

Part #: MGS-7X480-45KVA-2X208.30A-12X120.20A



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function MM_openBrWindow(theURL,winName,features) { //v2.0 window.open(theURL,winName,features); }
```

**-Made in Texas**

The Larson Electronics MGS-7X480-45KVA-2X208.30A-12X120.20A power distribution substation converts 480V AC three phase electrical current into single phase 208Y/120 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 MGS-7X480-45KVA-2X208.30A-12X120.20A portable power distribution system gives operators the ability to power their 120 volt and 208 volt equipment from a single system. On the primary side, operators connect 480 volt line-in power via 690-amp camlocks. Operators connect 480V equipment to one 200-amp ADR20034 480V receptacle and six 100-amp, 4100R7W, 480V receptacle. On the secondary side, operators connect to two L21-30R, 208V, 3-phase receptacles for their 208V equipment and a twelve 5-20R GFCI receptacle for 120V equipment.

**Operation:** The customer provided camlock cords connect to the red, orange, yellow, and green input camlocks to bring 480V three phase power to the NEMA 3R 800-amp, 480V three phase primary panel, which contains one 200-amp breaker protecting one ADR20034 receptacle, six 100-amp breakers protecting six 4100R7W receptacles, and one 60-amp breaker protecting the transformer. The primary panel passes 480V three phase through to the transformer. The NEMA 3R 45 KVA transformer converts 480V three phase power to 208Y/120 three phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 125-amp, 208Y/120 three phase main lug panel. This secondary panel contains two 30-amp, 208V breakers protecting two 30-amp L21-30R twist-lock receptacles and twelve 20-amp, 120V breakers protecting twelve 120V, 20-amp, 5-20R duplex receptacles. All receptacles are equipped with weatherproof covers.

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**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.

**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.

**Specifications / Additional Information****MGS-7X480-45KVA-2X208.30A-12X120.20A Power Transformer**

**Line-In Cord:** Customer provided cord connects to 690A camlocks [Red, Orange, Yellow, Green]

**Line-In Cord Cap:** Customer Provided

**Primary Voltage:** 480V 3-Phase

**Primary Disconnect:** 60A Breaker

**Primary Panel:** 800A MLO

**Primary Breakers:** (1) 200A [480V RCPT], (6) 100A [480V RCPT], (1) 60A [XMFR]

**Primary Receptacles:** (1) - ADR20034 [480V], (6) 4100R7W [480V]

**Primary Protection:** Weatherproof Covers

**Transformer:** 45KVA 480V 3-Phase to 208Y/120 3-Phase N3R

**Secondary Voltage:** 208Y/120 3-Phase

**Secondary Panel:** 208Y/120 120A MLO N3R

**Secondary Breakers:** (2) 30A [208V], (12) 20A [120V]

**Secondary Receptacles:** (2) L21-30R [208V], (12) 20A 5-20R [120V]

**Secondary Protection:** GFCI (5-20R), Weatherproof Covers

**Form Factor:** Square tube frame, skid pockets, top pick eye & locking 8" locking casters

**Frame Materials:** Powder coated steel frame

**Dimensions:** 34" X 44" X 72"

**Weight:** 750 pounds

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.

**Max OCP Primary:** 60A @ 480V

UL 1640 Portable Power-Distribution Equipment

NEMA 3R Indoor / Outdoor Use

Made in the USA

**Special Orders- Requirements**

Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-498-3363

**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\*

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Links (Click on the below items to view):

- [Manual](#)
- [WiringDiagram](#)
- [Hi-Res Image 1 Main](#)
- [Hi-Res Image 2 Front Angle](#)
- [Hi-Res Image 3 Back Angle](#)
- [Hi-Res Image 4 Side Angle](#)
- [Hi-Res Image 5 Front Breaker Open](#)
- [Hi-Res Image 6 Back Breaker Open](#)
- [Hi-Res Image 7 Closed Outlet Close Up](#)