Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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MGS-480D-4X30A-30KVA-208Y.120-6X15A-1X30A

30KVA Power Substation - 480V to 208Y/120V 3PH - (1) L17-30R (3) L20-30R (1) L15-30R (6) 5-15R-GFCI

Product ID: 154033

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

MGS-480D-4X30A-30KVA-208Y.120-6X15A-1X30A Power Transformer	Ratings
Line-In Cord: 40` Type W Cord	**Max OCP Primary: 100A @ 480V**
Line-In Cord Cap: 100A 4100P7W [480V]	**Max PDU OCP: 40A @ 480V**
Primary Voltage: 480VAC 3PH	**Max Secondary Output: 83.3A @ 208V**
Primary Panel: 100A 480V 3PH MCB N3R	UL 1640 Portable Power-Distribution Equipment
Primary Breakers: (1) 40A 3P [480V], (4) 30A 3P [480V]	NEMA 3R Indoor or Outdoor Use
Primary Receptacles: (1) 30A L17-30R [600V Rated], (3) 30A L20-30R [347/600V]	Made in the USA
Primary Protection: Breakers, Weatherproof Covers	
Transformer: 30KVA 480V to 208Y/120V 3PH 60 Hz N3R	
Secondary Voltage: 208Y/120VAC 3PH	
Secondary Panel: 100A 208Y/120V 3PH MLO N3R	
Secondary Breakers: (1) 30A 3P [250V], (6) 15A 1P [125V]	
Secondary Receptacles: (1) 30A L15-30R [250V], (6) 15A 5-15R GFCI [125V]	
Secondary Protection: GFCI, Weatherproof Covers	**Special Orders - Special Requirements**
	Contact us for special requirements
Form Factor: Square tube frame w/ 1/8" side walls, hinged access doors, skid pockets, 4-corner top pick eye & locking 8” locking casters	**Intl:** 1-903-270-1187
Frame Materials: Powder coated steel frame	**Toll Free:** 1-800-369-6671
Dimensions: 48” X 48” X 62”	**Fax:** 1-903-498-3364

Weight: 600 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.

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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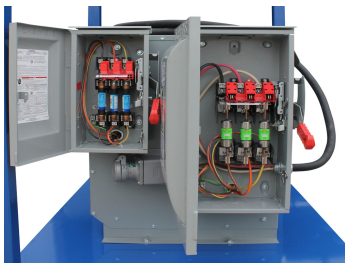
The Larson Electronics MGS-480D-4X30A-30KVA-208Y.120-6X15A-1X30A power distribution substation converts 480VAC electrical current into three phase 208Y/120VAC. This unit provides operators the ability to safely tap into and distribute 480VAC power from a variety of sources including generators and direct 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-480D-4X30A-30KVA-208Y.120-6X15A-1X30A portable power distribution system gives operators the ability to power their three phase 480V, 208V and 120V equipment from a single system. On the primary side, operators connect 480V line-in power via 35` of Type W cord with a 4100P7W cord cap to one L17-30R receptacle and three L20-30R receptacles for 480V equipment. On the secondary side, operators connect to one L15-30R receptacle for 208V equipment and to six 5-15R GFCI receptacles for 120V equipment. All receptacles are equipped with weatherproof covers.

Operation: The 40` Type W line-in cord with a 100-amp, 480V, 4100P7W cord cap brings 480V three phase power to the NEMA 3R 100-amp, 480V three phase main circuit breaker panel, which contains one 40-amp, 3-pole, 480V breaker and four 30-amp, 3-pole, 480V breakers protecting one 30-amp, 600V-rated, L17-30R receptacle and three 30-amp, 347/600V, L20-30R receptacles, and passes power to the transformer. The NEMA 3R 30KVA transformer converts 480V power to 208Y/120V three phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 100-amp 208Y/120V three phase main lug panel. This secondary panel contains one 30-amp, 3-pole, 250V breaker protecting one 30-amp, 250V, L15-30R receptacle and six 15-amp, 1-pole, 125V breakers protecting six 15-amp, 5-15R GFCI receptacles.



Click Photo to Enlarge



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 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)



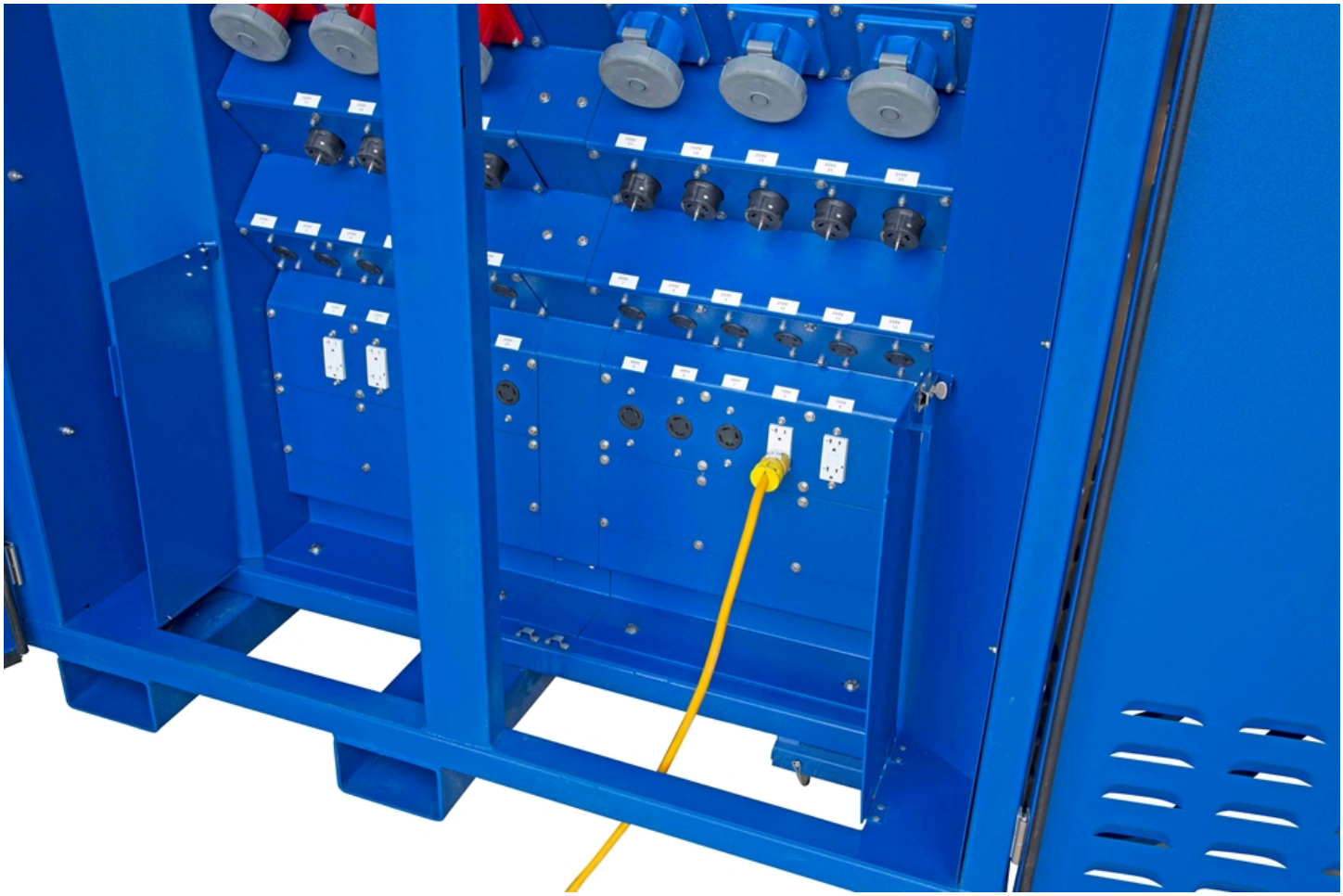
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Product ID: 154033

Harmonized System (HS) Code: 8504.21.0040

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- ANSI Certificate 1
- Canadian CEC Certificate (Commonly referred to as CSA Certificate)
- Catalog Page - Product Series
- CE Certificate
- Certificate 1, Misc
- Certificate 2, Misc
- Certificate 5, Misc
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map