

MGS-DC-600D-1X600.30A-15KVA-208Y.120-10X120.20A

15KVA Power Substation - 600V to 208Y/120V 3PH - (1) ADR3033 (10) 5-20R GFCI Duplex - 20' Cable

Product ID: 152674

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-DC-600D-1X600.30A-15KVA-208Y.120-10X120.20A Power Transformer

Ratings

Line-In Cord: 20' #6-3c-4w SOOW Cable
Line-In Cord Cap: Customer Provided
Primary Voltage: 600VAC 3PH
Primary Disconnects: 600V 3PH 30A N3R Fused @ 30A, 600V 3PH 30A N3R Fused @ 20A
Primary Receptacles: (1) 30A ADR3033 Pin/Sleeve [600V]
Primary Protection: Time Delay Fuses, Disconnects
Transformer: 15KVA 600V to 208Y/120V 3PH 60 Hz N3R
Secondary Voltage: 208Y/120VAC 3PH
Secondary Panel: 208Y/120V 3PH 100A MLO N3R
Secondary Breakers: (10) 20A 1P [125V]
Secondary Receptacles: (10) 20A 5-20R GFCI Duplex [125V]
Secondary Protection: Circuit Breakers, GFCIs, 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

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

Max Primary OCP: 50A @ 600V
Max PDU OCP: 20A @ 600V
Max Secondary Output: 41.6A @ 208V
NRTL Certified to 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

*All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic

represent this exact configuration in every detail due to being custom builds. The specifics for this configuration are listed in the Code section 250* specification table and one-line diagram.

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The Larson Electronics MGS-DC-600D-1X600.30A-15KVA-208Y.120-10X120.20A power distribution substation converts three-phase 600VAC electrical current into three-phase 208Y/120VAC. This unit provides operators the ability to safely tap into and distribute 600V 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-DC-600D-1X600.30A-15KVA-208Y.120-10X120.20A portable power distribution system gives operators the ability to power their 600 volt, 208 volt, and 120 volt equipment from a single system. On the primary side, operators connect three-phase 600V line-in power via 20` of #6 SOOW cable to one ADR3033 receptacle for 600V equipment. On the secondary side, operators connect to ten 5-20R GFCI duplex receptacles for 120V equipment. All receptacles are equipped with weatherproof covers.

Operation: A 20` #6 SOOW line-in cable brings 600V three-phase power to the NEMA 3R 30-amp, 600V delta three-phase primary disconnect, which contains three 30-amp time delay fuses protecting one 30-amp, 600V ADR3033 pin/sleeve receptacle, and passes power through to the second primary disconnect. The NEMA 3R 30-amp, 600V three-phase second primary disconnect, which contains three 20-amp time delay fuses, passes power to the transformer. The NEMA 3R 15KVA transformer converts 600V three-phase 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 only panel. This secondary panel contains ten 20-amp, 1-pole, 125V breakers protecting ten 20-amp, 125V, 5-20R GFCI duplex receptacles.



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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.



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Certification: Larson Electronics is an NRTL Certified to 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 NRTL 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.

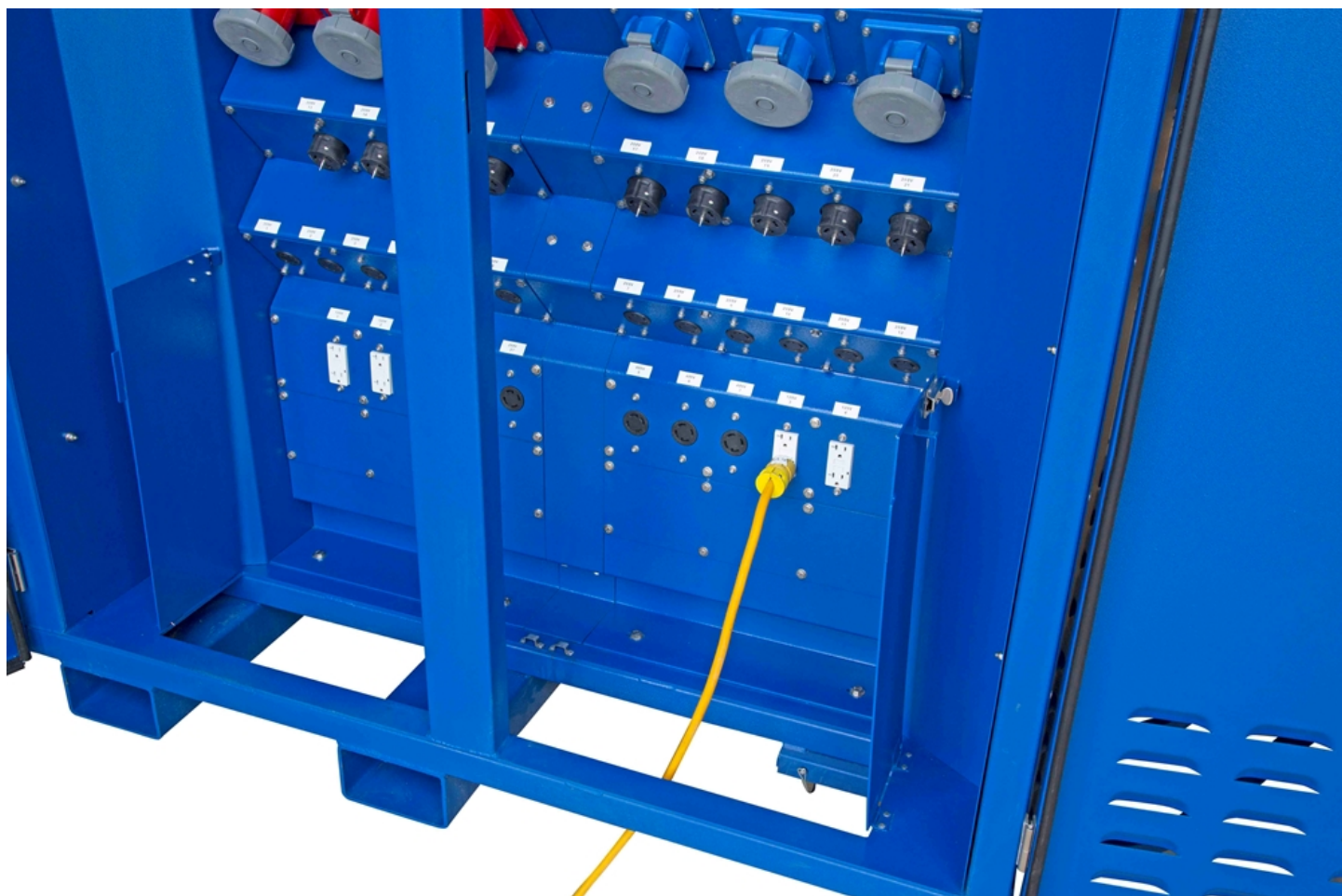
Custom Built Systems Available: Larson Electronics is a manufacturer and we can build portable power distribution systems to your specifications. Although we carry several models of portable power distribution systems in stock, we can deliver custom ordered units almost as quickly as our prebuilt units. 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.



Frequently Asked Questions (FAQ)









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Product ID: 152674

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 \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
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- [HigResPic4](#)
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