

**50 KVA Power Distribution - (4) 600V Outlets - 600V-120/240V - (4) 120V & 10 X 240V Outlets**  
**MGS-600.4X60A.1X100A-50KVA-4X240.50A-10X120.20A**



**MGS-600.4X60A.1X100A-50KVA-4X240.50A-10X120.20A Power Transformer**

Line-In Cord: Customer Provided

Line-In Cord Cap: Customer Provided

Primary Voltage: 600V 3-Phase

Primary Disconnect: -

Primary Panel: 600V 3P 250A MB N3R

Primary Breakers: (4) 60A [RCPT], (1) 100A [RCPT], (1) 125A [XMFR]

Primary Receptacles: (4) 460R5W, (1) 4100R5W

Primary Protection: MB, Weatherproof Covers

Transformer: 50KVA 600V 3-Phase to 120/240V 1-Phase N3R

Secondary Voltage: 120/240V 1-Phase

Secondary Panel: 120/240V 225A MLO N3R

Secondary Breakers: (4) 50A [240V], (10) 20A [120V]

Secondary Receptacles: (4) CS8269 [240V], (10) 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 58"

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.

Max OCP Primary: 250A @ 600V

NRTL certified to 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: 1-903-270-1187

E-mail: [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

\*All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250\*

**Made in Texas**

**The Larson Electronics MGS-600.4X60A.1X100A-50KVA-4X240.50A-10X120.20A power distribution substation converts 600V AC three phase electrical current into single phase 120/240V AC. This unit provides operators the ability to safely tap into 600V and distribute 600V, 240V, and 120V 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-600.4X60A.1X100A-50KVA-4X240.50A-10X120.20A portable power distribution system gives operators the ability to power their 600 volt, 240 volt, and 120V equipment from a single system. On the primary side, operators connect 600 volt line-in power via customer provided cord. Operators connect 600V equipment to four 460R5W and one 4100R5W 600V receptacles. On the secondary side, operators connect to four CS8269 240V receptacles for their 240V

equipment and a ten 5-20R GFCI receptacles for 120V equipment.

**Operation:** The customer provided line-in cord brings 600V three phase power to the NEMA 3R 250-amp, 600V three phase primary main breaker panel, which contains four 60-amp breakers protecting four 60-amp, 600V, 460R5W receptacles, one 100-amp breaker protecting one 100-amp, 600V, 4100R5W pin/sleeve receptacle, and one 125-amp breaker protecting the 50 KVA transformer. The NEMA 3R 50 KVA transformer converts 600V three phase power to 120/240V single phase and passes the current to the secondary panel. The secondary side of the transformer feeds a NEMA 3R 225-amp, 120/240V single phase main lug panel. This secondary panel contains four 50-amp, 240V breakers protecting four 50-amp CS8269 California Standard receptacles and ten 20-amp, 120V breakers protecting ten 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 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



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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](mailto:sales@larsonelectronics.com) to discuss your specific requirements.

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