

**60KVA Power Distribution System - (2) Transformers (2) Prim Disconnects (2) MLO Panels - 25' #6 Cord**

Part #: MPD-480V-45K.50Hz-400.230V-15K-60Hz-208.120-MOD1



**Made in Texas**

The Larson Electronics MPD-480V-45K.50Hz-400.230V-15K-60Hz-208.120-MOD1 power distribution substation converts 480V three phase electrical current into three phase 50HZ 400Y/230VAC and 60HZ 208Y/120VAC, via two transformers. This system 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 MPD-480V-45K.50Hz-400.230V-15K-60Hz-208.120-MOD1 portable power distribution system gives operators the ability to power their 50HZ 400Y/230VAC and 60HZ 208Y/120VAC equipment from a single system. On the primary side, operators connect three phase 480V using 25' of #6 Type W cord. On the secondary side, circuit breakers are provided for protecting connected equipment.

**Operation:** A 25' #6 Type W cord brings 480V three phase power to the first NEMA 3R 60-amp 480V three phase primary disconnect, which contains three 60-amp time delay fuses, and passes 480V three phase power to the first transformer. The first transformer consists of a NEMA 3R 45KVA frequency converter that converts 60HZ 480V to 50HZ 400Y/230V three phase and passes the current to the secondary side. The secondary side of the first transformer is equipped with a NEMA 3R 65-amp 400Y/230V three phase main lug only panel. This 1st secondary panel contains two 30-amp 3-pole 480V and two 15-amp 1-pole 480V breakers.

For the second set of units on the power distribution system, the same 25' #6 Type W cord brings 480V three phase power to the second NEMA 3R 30-amp 480V three phase primary disconnect, which contains three 25-amp time delay fuses, and passes 480V three phase power to the second transformer. The second transformer consists of a NEMA 3R 15KVA transformer that converts 480V to 208Y/120V three phase 60Hz and passes the current to the secondary side. The secondary side of the second transformer is equipped with a NEMA 3R 41.6A 208Y/120V three phase main lug only panel. This 2nd secondary panel contains four 20-amp 1-pole 125V and four 15-amp 1-pole 125V breakers.

**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****MPD-480V-45K.50Hz-400.230V-15K-60Hz-208.120-MOD1 Power Distribution System**

**Line-In Cord:** 25' #6 Type W Cord

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

**Primary Voltage:** 480V 3PH

**Ratings**

**Max Primary OCP:** (#1) 60A @ 480V, (#2) 25A @ 480V

**Max Secondary Output:** (#1) 65A @ 400V, (#2) 41.6A @ 208V

UL 1640 Portable Power-Distribution Equipment

**Primary Disconnects:** (#1) 60A 480V 3PH Fused @ 60A N3R, (#2) 30A 480V 3PH Fused @ 25A N3R

NEMA 3R Indoor / Outdoor Use

**Primary Panel:** -

Made in the USA

**Primary FCAN:** 2 x 2.5%

**Primary FCBN:** 4 x 2.5%

**Primary Protection:** Disconnect Switches, Time Delay Fuses

**Frequency Inverters:** (#1) 45KVA 480V to 400Y/230V 3PH 50Hz N3R

**Transformers:** (#2) 15KVA 480V to 208Y/120V 3PH 60Hz N3R

**Secondary Voltages:** (#1) 400Y/230V 3PH, (#2) 208Y/120V 3PH

**Secondary Panels:** (#1) 65A 400Y/230V 3PH MLO N3R

**Secondary Panels:** (#2) 41.6A 208Y/120V 3PH MLO N3R

**Secondary Breakers (#1 MLO):** (2) 30A 3P [480V], (2) 15A 1P [480V]

**Secondary Breakers (#2 MLO):** (4) 20A 1P [125V], (4) 15A 1P [125V]

**Special Orders- Requirements**

**Secondary Protection:** Circuit Breakers

Contact us for special requirements

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

**Phone:** 1-214-616-6180

**Frame Materials:** Powder coated steel frame

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

**Dimensions:** 80"L x 44"W x 73"H

**Fax:** 1-903-498-3364

**Weight:** 2000 pounds

**E-mail:** sales@larsonelectronics.com

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.

\*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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