Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

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Email: sales@LarsonElectronics.com
Fax: 903.498.3364

**MPD-CW51-TBX.80AB-DE50YE-JG-1.T20.TBX-M1**

# 50 KVA Portable Distribution Skid - 480V-480Y/277 3PH - (1) 80A Terminal Lug Line-In - (1) 60A Terminal Lug Outlet

**Product ID: 285528**

**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.**

**MPD-CW51-TBX.80AB-DE50YE-JG-1.T20.TBX-M1 - Temporary Power Distribution System**

**Line-in:** 80A Terminal Lug NEMA Enclosure [480V]
**Primary Voltage (V):** 480V AC Delta
**Primary Phase (PH): 3-Phase (3PH)**
**Primary Frequency (HZ): 60 Hz (60-cycles)**
**Primary Panel: N/A**
**Primary Breaker(s):** (1) 80A 3P MCCB [480V]
**Primary Protection:** MCCB Circuit Breaker
**Transformer (KVA):** 50KVA 480V to 480Y/277V 3PH N3R
**Secondary Voltage (V):** 480/277V AC Wye
**Secondary Phase (PH): 3-Phase (3PH)**
**Secondary Frequency (HZ): 60 Hz (60-cycles)**
**Secondary Panel:** N/A
**Secondary Breaker(s):** (1) 60A 3P MCCB [480V]
**Secondary Outlet(s):** (1) 60A Terminal Lug NEMA Enclosure [480Y/277V]
**Secondary Protection:** MCCB Circuit Breaker
**Form Factor:** Blue Powder Coated Steel Closed Cube w/ Skids
**Doors:** (2)
**Frame Material:** Steel
**Frame Finish:** High-Strength TGIC Polyester Powder Coated Blue
**Cart Handle Orientation:** Horizontal
**Lifting Eyelet:** (4) Top Located
**Skid Pockets:** (2) Bottom Located
**Casters:** N/A

**Ratings**

**Max Primary OCP:** 80A @ 480V
**Max Secondary Output:** 60A @ 480V
NEMA 3R Indoor or Outdoor Use
Made in the USA
NRTL Certified to UL 1640
NRTL Certified to CSA C22.2 No. 14

**Powder Coat Finish Standards:**
Complies with ASTM D-523
Complies with ASTM D-3359
Complies with ASTM D-522
Complies with ASTM D-3363
Complies with ASTM D-2794

**Special Orders - Special Requirements**
Contact us for special requirements

**Intl:** 1-903-270-1187

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

**Dimensions:** (*Please note that dimensions are approximate and subject to change*) 55.5"-L x 33.5"-W x 70"-H

**Weight:** (*Please note that weight is approximate and subject to change*) 1650 lb

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.

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

**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*

## Made in Texas

**The MPD-CW51-TBX.80AB-DE50YE-JG-1.T20.TBX-M1 from Larson Electronics is a Power Distribution Substation that converts three-phase 480 V AC electrical current to three-phase 480Y/277 V AC. This fully enclosed power distribution unit provides operators the ability to safely tap into and distribute 480 V 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****

The MPD-CW51-TBX.80AB-DE50YE-JG-1.T20.TBX-M1 temporary power distribution system gives operators the ability to power their 480 volt equipment from a single system.

**Operation:**

- Primary Voltage: 3-phase 480V AC, Delta
- Primary Breaker(s): (1) 80A 3P MCCB [480V]
- Transformer: 50KVA 480V to 480Y/277V 3PH N3R
- Secondary Voltage: 3-phase 480/277V AC Wye
- Secondary Breaker(s): (1) 60A 3P MCCB [480V]
- Secondary Outlet(s): (1) 60A Terminal Lug NEMA Enclosure [480Y/277V]

*See specification table at the top of the page for more information about the power distribution system.

**Protective Construction:** This temporary power distribution unit is fully enclosed and is ruggedly constructed to withstand demanding conditions and industrial applications. The system is accessible via two doors at each end for access to breakers on the panels and a center-located door for access to receptacles. The model is equipped with bottom-located forklift skid pockets and four top-located lifting eyelets, which allows easy lifting with cable or chain hooks.

The power distribution system is constructed of steel with a polyester powder coated blue finish for durability against dirt, moisture and mild corrosion. This special coating creates a high-strength barrier for protection from accidental bumps and scratches. The TGIC polyester powder coat finish offers reliable resistance against chemicals, UV light (sun light) and degrading elements in outdoor locations. Our powder coating solution ensures robust color retention for many years without fading. Custom colors, such as black, grey, desert tan or forest green, and galvanized finishes are available upon request. Non-standard powder coat colors or galvanized finishes may increase price and lead times.

The transformer and load center/distribution assembly is mounted to a standard steel cube style frame resulting in an extremely stable, durable and mobile power distribution platform. This temporary power distribution solution can be modified to meet the needs of job-site receptacle requirements. Larger units are available upon request and can be equipped with skids or trailer mounted.

**Certification:** 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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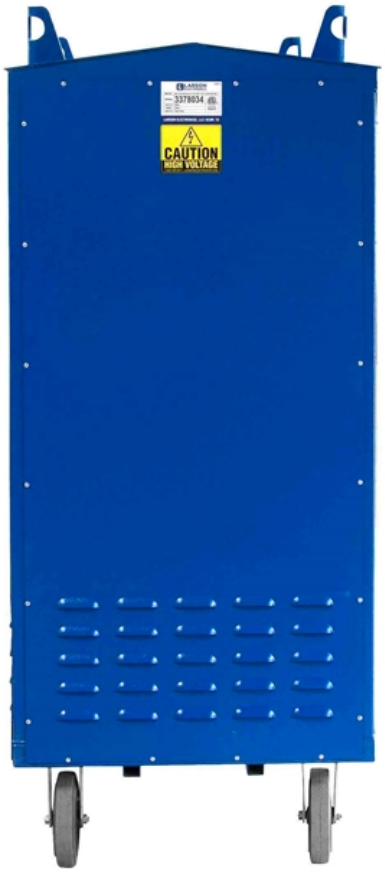
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CAUTION
HIGH VOLTAGE



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**Product ID: 285528**

**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)
- Single Line Diagram (One-Line Diagram)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map