Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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MPD-CD2-BW.60A-SE25SZ-BW.100A-ATS-1.E22-8.N10-M1

25 KVA Portable Power Distribution w/ 100A 120/240V ATS - 480Vx240V to 120/240V 1PH - (1) 360R6W (8) 5-20R GFCI - N3R

Product ID: 105909

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-CD2-BW.60A-SE25SZ-BW.100A-ATS-1.E22-8.N10-M1 - Temporary Power Distribution System

Primary Voltage 1: 480V 1PH Per 10' #8/3 AWG TYPE W Cord [2000V]
Primary Voltage 2: 120/240V 1PH Per 10' #4/4 AWG TYPE W Cord [2000V]
Primary Voltage Management: 120/240V 1PH 100A ATS N3R
Primary Phase (PH): 1-Phase (1PH)
Primary Frequency (HZ): 60 Hz (60-cycles)
Primary Panel: N/A
Primary Breaker(s): (1) 60A 3P MCCB [480V]
Primary Outlet(s): N/A
Primary Protection: MCCB Circuit Breaker
Transformer (KVA): 25KVA 480V to 120/240V 1PH N3R
Secondary Voltage (V): 120/240V AC
Secondary Phase (PH): 1-Phase (1PH)
Secondary Frequency (HZ): 60 Hz (60-cycles)
Secondary Panel: 120/240V 1PH 100A Shunt-trip MCCB Hinged N3R
Secondary Breaker(s): (1) 60A 2P MCCB [250V]; (8) 20A 1P MCB [125V]
Secondary Outlet(s): (1) 360R6W IEC 60309 Pin & Sleeve [250V]; (8) 5-20R NEMA DPLX GFCI [125V]
Secondary Protection: MCCB Circuit Breakers; MCB Circuit Breakers
Form Factor: Blue Powder Coated MGL Dolly Cart w/ Run Flat Tires
Front Cover: Weatherproof Lid w/ Front-located Handle and Lock
Cover Locking Position: Upward w/ Internal Locks on Both Sides of the Lid
Vibration Isolators: Transformer and Breakers
Drain Plug: Panel
Cart Material: Steel

Ratings

Max Primary OCP: 60A @ 480V
Max Secondary Output: 100A @ 240V
NEMA 3R Indoor or Outdoor Use
NEMA 3R In-Use Weather Shield
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

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Cart Finish: High-Strength TGIC Polyester Powder Coated Blue
Cart Handle Orientation: Horizontal
Lifting Eyelet: (1) Center Point

No-flat Tires: (2) Black

Dimensions: 34"-W x 35.05"-D x 64.63"-H

Weight: 250 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.

Special Orders - Special Requirements
Contact us for special requirements
Intl: 1-214-616-6180

Toll Free: 1-800-369-6671

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-CD2-BW.60A-SE25SZ-BW.100A-ATS-1.E22-8.N10-M1 from Larson Electronics is a Temporary Power Distribution System that converts single-phase 480V AC electrical current into single-phase 120/240V. Equipped with an automatic transfer switch, this unit provides operators the ability to safely tap into and distribute 480V 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-CD2-BW.60A-SE25SZ-BW.100A-ATS-1.E22-8.N10-M1 temporary power distribution system gives operators the ability to power their 240 volt and 120 volt equipment from a single system. On the primary side, operators connect 480V using a 10' #8/3 Type W cord or 120/240V using a 10' #4/4 Type W cord. On the secondary side, operators connect to one 360R6W receptacle for 240V equipment and to eight 5-20R GFCI duplex receptacles for 120V equipment. All receptacles are equipped with weatherproof covers. Operators may also access an automatic transfer switch with 10' of #4/4 Type W cord on the secondary side.

Operation:

- Primary Voltage 1: 480V 1PH Per 10' #8/3 AWG TYPE W Cord [2000V]
- Primary Voltage 2: 120/240V 1PH Per 10' #4/4 AWG TYPE W Cord [2000V]
- Primary Voltage Management: 120/240V 1PH 100A ATS N3R
- Primary Panel: N/A
- Primary Breaker(s): N/A
- Primary Outlet(s): N/A
- Transformer: 25KVA 480V to 120/240V 1PH N3R
- Secondary Voltage: 120/240V AC 1PH
- Secondary Panel: 120/240V 1PH 100A Shunt-trip MCCB Hinged N3R
- Secondary Breaker(s): (1) 60A 2P MCCB [250V]; (8) 20A 1P MCB [125V]
- Secondary Outlet(s): (1) 360R6W IEC 60309 Pin & Sleeve [250V]; (8) 5-20R NEMA DPLX GFCI [125V]

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

A 10' #8/3 Type W cord brings single-phase 480V power to the unit and passes single-phase 480V power through to the transformer. The NEMA 3R 25 KVA transformer converts single-phase 480V to single-phase 120/240V and passes the current to the secondary side. The secondary side of the transformer feeds a NEMA 3R 100-amp 120/240V single phase main circuit breaker panel. This secondary side contains one 60-amp 2-pole 250V breaker protecting one 60-amp 250V 360R6W receptacle and eight 20-amp 1-pole 125V breakers protecting eight 20-amp 125V 5-20R GFCI duplex receptacles.

Automatic Transfer Switch: The NEMA 3R 100-amp automatic transfer switch sits between the transformer and the secondary panel. When it detects power coming from the transformer, it ensures the line-in cable dedicated to 120/240V service is not energized. When the line-in cable for 480-120/240V is de-energized, the ATS ensures the line-in cable dedicated to 120/240V service is energized. In either scenario, the customer can access the provided outlets on the secondary side.

In the event the 10' #4/5 Type W line-in cable for 120/240V single phase is energized, the secondary panel passes single-phase power to the one 60-amp

breaker/360R6W receptacle and eight 20-amp breakers/5-20R GFCI duplex receptacles with weatherproof covers. In this scenario, the ATS will cut off power to the de-energized single phase 480V line-in cable so electrical hazards are eliminated.

Protective Construction: A weatherproof flip cover at the front of the unit can be lifted upwards via an accessible handle, which serves as protection for (primary and secondary) breakers and receptacles in rugged environments when deployed at the site. Operators may access locks on the door and on the ears (accessible from the inside of the lid) of the panel. The panel can be positioned upwards and locked in place for easy access to receptacles and breakers. A drain plug on the panel helps the power distribution system achieve a NEMA 3R rating, allowing the unit to be used in both indoor and outdoor locations.

The transformer is protected by vibration isolators that reduce damage to exterior jacket of wiring components and decrease noise during operation. In MGL-style power distribution systems, the presence of vibration isolators ensures wiring between the transformer and panel is well protected and does not have to be frequently replaced. Vibration isolators can also be found on the breakers, which protect the breakers from damage, prevent loose bolts/nuts and reduce overall noise during use in the field.

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 cart style frame resulting in an extremely stable, durable, and mobile power distribution platform. Two rubber tires and a cart style mounting platform provides easier substation mobility, and a center point lift eye allows easy lifting with cable or chain hooks. 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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CAUTION
SHED ALL LOADS
BEFORE TURNING
ON / OFF
WARNING





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
- Dimensional Drawing 2D
- 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
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map