Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
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MGL-HD-415V-50KW-415.240V-160A.DS

50 KW Temporary Power Distribution Board - 415V AC 3PH Input - 415/240V AC Output - Dual MCCB Incomers - IP44

Product ID: 338782

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MGL-HD-415V-50KW-415.240V-160A.DS

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

MGL-HD-415V-50KW-415.240V-160A.DS -Temporary Power Distribution

Unit Type: Temporary AC Distribution Board
Input Voltage: 415V AC, 3PH, 50Hz
Output Voltage: 415/240V AC, 3PH + 1PH
Load Rating: 50 kW
Bus Rating: 160A Minimum
Short Circuit Rating: 10 kA RMS, 1 Second
Pollution Degree: 3
Rated Insulation Voltage: 690V AC
Earthing System: Solid Ground
Incoming Disconnects: (2) 4-Pole MCCBs w/ Mechanical & Electrical Interlock
Incoming Breaker Ratings: 25A & 160A
Incoming Protection: Residual Current Device (RCD), Adjustable 30-100mA
Incoming Cable #1: 4C x 70mm² CU/XLPE/LSZH/SWA/LSZH
Incoming Cable #2: 4C x 6mm² CU/XLPE/LSZH/SWA/LSZH
Outgoing Breakers: MCCBs & MCBs
Outgoing Protection: MCCBs, MCBs, Shunt Trip

Ratings

IP44 Rated Enclosure
Marine & Offshore Suitable
Outdoor Non-Hazardous Area
Color-Coded Busbars
Suitable for Marine & Offshore Service
Made for Offshore Temporary Power Distribution

Busbars: Fully Insulated HDHC Tinned Copper
Contactor: Electromagnetically Operated Air-Break Type
Metering: Analog Input/Output Voltmeters & Ammeters
Alarm Contact: Common Alarm Dry Contact
Enclosure Material: 2mm Thick Sheet Steel
Cable Entry: Bottom Entry
Gland Sizes: M20, M25, M32, M50
Ambient Temperature: 21°C to 36.1°C
Humidity: Up to 100%
Altitude: <1000m
Mounting: Skid Mounted Free-Standing Frame
Earthing: M10 Earth Stud & Bonding Facilities
Dimensions: 800mm x 600mm x 1200mm (Maximum Space Allocation)

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: 1-903-270-1187
Toll Free: 1-800-369-6671
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all grounding shall comply with state and local codes and meet the minimum requirements of the national electronic code section 250

This unit is Made In USA - Manufactured in Texas

The Larson Electronics MGL-HD-415V-50KW-415.240V-160A.DS Temporary AC Distribution Board is designed to provide safe and reliable temporary power distribution for offshore, marine, industrial, and commercial applications. This outdoor-rated power distribution unit accepts 415V AC three-phase input power and distributes 415/240V AC power for both three-phase and single-phase loads. The system features dual incoming MCCBs with mechanical and electrical interlocks, RCD protection, insulated copper busbars, and an IP44-rated enclosure suitable for harsh operating environments.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO POWER DISTRIBUTION PANELS, TRANSFORMERS, OR SUBSTATIONS*

Temporary Power Distribution Purpose and Use: The MGL-HD-415V-50KW-415.240V-160A.DS temporary AC distribution board allows operators to safely distribute electrical power from temporary generators, frequency converters, utility connections, and other power sources. Designed for offshore and marine installations, this unit provides centralized power distribution for temporary facilities, maintenance operations, shutdowns, commissioning projects, and construction activities.

Operation: Incoming 415V AC, 50Hz three-phase power enters the enclosure through one of two incoming MCCBs equipped with mechanical and electrical interlocks for safe source selection. Adjustable RCD protection provides personnel and equipment protection with settings from 30mA to 100mA. Power is distributed through fully insulated HDHC tinned copper busbars rated for 160 amps minimum and supplied to outgoing MCCB and MCB feeder circuits. Analog voltmeters and ammeters provide local monitoring of system performance, while status indication lamps and alarm contacts support operational awareness.

Protective Construction: The distribution board is housed within a rugged IP44-rated sheet steel enclosure constructed from a minimum of 2mm thick steel. The enclosure features front access, bottom cable entry, removable gland plates, natural ventilation, enclosure bonding, padlocking provisions, lifting lugs, and integrated drain and breather assemblies. The system is mounted on a skid-mounted free-standing framework complete with rain and sun canopy for reliable outdoor service.

This temporary distribution solution can be customized to meet specific project requirements including feeder configurations, breaker arrangements, metering packages, cable entry requirements, enclosure modifications, and special offshore installation requirements.

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 temporary AC distribution board is suitable for outdoor non-hazardous marine and offshore environments and is ideal for offshore platforms, shipyards, construction sites, plant maintenance operations, shutdowns, commissioning projects, temporary facilities, utility installations, and industrial work sites requiring reliable temporary power distribution.

Larson Electronics is a manufacturer and as such can build portable transformer systems to your specifications. Although we carry several models of power distribution transformers, 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)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

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