Larson Electronics LLC
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Product ID: 339887

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

Image:

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-DS-WM-NFDS-2P-2W-1500VDC-250A-DF-BM-N4X-M1 Disconnect Switch - Fused Disconnect

Unit Type: Quad DC Disconnect Switch Assembly
Line-In: (4) Customer Provided DC Inputs
Line-In Cord Cap: N/A (customer provided)
Line-In Connections: Terminal Lugs
Line-In Orientation: Bottom Feed (Top/Side Optional)
Voltage: 1500V DC
Phase: DC
Frequency:
Protection Method: Non-Fused Disconnect
Protection Type: Manual Load Break Disconnect Switches
Protection Ampacity: (4) 250A Disconnect Switches
Mains Rating (Amps): 250A Per Disconnect
Interrupting Rating: 20kA @ 1500V DC
Disconnect Means: (4) Manual External Rotary Handles
Number of Circuits: 4 Independent DC Circuits
Configuration: 4 Inputs / 4 Outputs
Switch Configuration: (4) 2-Pole, 2-Wire Disconnect Switches
Ground Terminal: Accepts #14 AWG to 2/0 AWG Conductors
Ground Lug: ILSCO TA-2/0 (8X) or Equivalent
Load Break Capable: Yes
Line-Out: (4) Customer Provided DC Outputs
Line-Out Cord Cap: N/A (customer provided)

Ratings

NRTL Listed to UL 98B – Enclosed & Dead-Front Switches (DC)
UL Listed Components
NEMA 4X Rated for Indoor and Outdoor Use
Suitable for Photovoltaic (PV) Systems
Type 2 DC Surge Protective Device (SPD) Included
Negative is Ungrounded
Made in the USA

Line-Out Connection: Terminal Lugs
Line-Out Orientation: Bottom Feed (Top/Side Optional)
Form Factor: Rectangular Enclosure with (4) External Lockable Handles
Door: (1) Hinged Door with Padlockable Latch
Enclosure Material: 11GA Powder-Coated Carbon Steel *(316 Stainless Steel Optional)*
Enclosure Finish: ANSI 61 Gray
Enclosure Type: NEMA 4X
Mount: Wall Mount
Dimensions: 35.43" W × 47.28" H × 11.93" D *(900 × 1201 × 303 mm)*
Weight: TBD
Shipping Dimensions: TBD
(*Please note that weight is approximate and subject to change*) Shipping Weight: TBD

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
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664

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 the USA

The MPD-DS-WM-NFDS-2P-2W-1500VDC-250A-DF-BM-N4X-M1 from Larson Electronics is a 1500V DC Quad Disconnect Switch Assembly designed for reliable isolation of photovoltaic (PV) and other high-voltage DC power systems. This wall-mounted assembly houses (4) independent 250-amp, 1500V DC rated, 2-pole, 2-wire non-fused disconnect switches within a single NEMA 4X enclosure, allowing operators to safely isolate up to four independent DC circuits. The assembly also includes an integrated Type 2 DC Surge Protective Device (SPD) and ground terminals that accept conductors from #14 AWG through 2/0 AWG.

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

The MPD-DS-WM-NFDS-2P-2W-1500VDC-250A-DF-BM-N4X-M1 provides a safe and reliable means of isolating multiple high-voltage DC circuits commonly found in commercial and utility-scale photovoltaic installations. Each disconnect switch is operated independently by its own externally mounted, lockable rotary handle, allowing individual maintenance or servicing without interrupting the remaining circuits. The assembly supports (4) DC inputs and (4) DC outputs and is suitable for wall-mounted installations.

Operation: Each disconnect switch features a heavy-duty external operating handle for manual load-break operation. The enclosure door is padlockable to prevent unauthorized access, while a dead-front interior design helps protect personnel from energized components during operation and maintenance..

Enclosure Design: The disconnect assembly is housed in a rugged 11-gauge sheet steel enclosure finished in ANSI 61 gray and rated NEMA 4X for indoor and outdoor environments. The enclosure is designed to protect internal components against rain, hose-directed water, corrosion, dust, and other harsh environmental conditions. Bottom cable entry is standard, with top or side entry available upon request.

Certification:

- NRTL Listed to UL 98B – Enclosed & Dead-Front Switches for DC

- Type 2 DC Surge Protective Device

Mount: Operators can mount the service entrance disconnect on walls.

Customization: The MPD-DS-WM-NFDS-2P-2W-1500VDC-250A-DF-BM-N4X-M1 can be customized to meet specific operating and power requirements. Example of customizations include:

• Making the fused disconnect portable and certified to NRTL UL 1640 for portable equipment

• Adding single pole camlock connectors for quick connections

• Adding heaters for cold environments

• Aiding alarm relays for trip notification downstream

• Adding power meters

Applications: This disconnect assembly is suitable for commercial and utility-scale photovoltaic systems, battery energy storage systems (BESS), renewable energy facilities, industrial DC power distribution, and other applications requiring safe isolation of multiple 1500V DC circuits.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/339887.JPG)
- **Video1**(https://www.youtube.com/watch?v=QLVGowfKMN8)
- **Video2**(https://www.youtube.com/watch?v=aOJY5E9e33I)
- **Video3**(https://www.youtube.com/watch?v=_kAQF7Lv-OU)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
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