



MULTIPLE LOAD-BREAK DISCONNECT

ABOUT

The Shoals™ Multiple Load-Break Disconnect (MLBD) centralizes up to five disconnects in a single wall-mounted enclosure, offering a streamlined solution compared to clustered individual disconnects. This design enables faster installation and a reduced footprint. Each disconnect operates a separate circuit through the door, providing efficient control. Lockable handles ensure a convenient, code-compliant method for de-energizing circuits, reducing installation and maintenance time and costs.

Designed for exceptional durability, the MLBD undergoes rigorous full-load testing during static heating sequences to ensure long-term, reliable performance. It integrates seamlessly with Shoals BLA and other solar PV and battery storage wiring solutions, making it a top choice for the industry.

FEATURES

- 1500V 100% rated load-break disconnect, 400A or 500A
- Through the door disconnect handles for each circuit
- Mounting configuration for 2-hole NEMA 1/2" x 1-3/4" lugs
- Rated for 90°C copper or aluminum conductors
- Safety shield covers all live components
- Designed for ease of cable installation
- Optional surge protection device, UL Type 1
- UL Type 4 enclosure
- Standard 5-year warranty
- Compliant with NEC 2023
- ETL certified to UL1741

TECHNICAL INFORMATION

STG.DCD.xx.CaaadNEE.AHs^(a)

Rated Current	400A or 500A
Short Circuit Current Rating	10kA
Max. System Voltage	1500VDC
Max. Fuse Size (per input)	Non-Fused
Number of Input Circuits	2 to 5 ^(b)
Input Wire Size (per circuit)	Up to (1) 750 MCM ^(c)
Output Wire Size (per circuit)	Up to (1) 750 MCM ^(c)
Ground Wire Size (per circuit)	2/0-14 AWG
Enclosure Rating	Type 4
Max. Ambient Temp. Rating	50°C
Enclosure Size (H x W x D)	48" x 36" x 10" ^(d)
Approximate Weight	250lbs (5-circuit input)

(a) xx = disconnect quantity (02, 03, 04, or 05)

aaa = disconnect rating (400 or 500)

d = disconnect type ("B" for ABB or "S" for Socomec)

s = SPD type ("D" for Dehn, "N" for none)

(b) Limited to 4 circuits with SPD option.

(c) 350-750 MCM with mechanical lug no longer than 4.75". Up to 500 MCM with compression lug no longer than 6.5"

(d) Dimension refers to trade size. See project drawings for exact dimensions.

Product design and specification subject to change or modification without notice.

