



MULTIPLE LOAD-BREAK DISCONNECT

ABOUT

The Shoals™ Multiple Load-Break Disconnect (MLBD) centralizes up to 16 disconnects in a single free-standing 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 other solar PV and battery storage wiring solutions from Shoals, 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
- Type 3R pad-lockable enclosure
- Standard 5-year warranty
- Compliant with NEC 2017/2020
- ETL certified to UL1741

TECHNICAL INFORMATION	STG.DCD.xx.CaaaBNCC.DeN ^(a)	STG.DCD.xx.CaaaBCC.DeN ^(a)
Max. System Voltage	1500 VDC	1500 VDC
Rated Output Current	400A or 500A	400A or 500A
Max. Fuse Size	Non-Fused	400A or 500A
Max. Short Circuit Current (I _{sc})	320A or 400A	320A or 400A
Short Circuit Withstand Rating	10kA	10kA ^(b)
Number of Input Circuits	6 to 16 ^(c)	6 to 16 ^(c)
Input Wire Size (per circuit)	Up to (1) 800 MCM or (2) 700 MCM	Up to (1) 800 MCM or (2) 700 MCM
Output Wire Size (per circuit)	Up to (1) 800 MCM or (2) 700 MCM	Up to (1) 800 MCM or (2) 700 MCM
Ground Wire Size (per circuit)	Up to 2/0	Up to 2/0
Enclosure Rating	Type 3R	Type 3R
Max. Ambient Temp. Rating	50°C	50°C
Enclosure Size (H x W x D)	82.68" x 47.25" x 31.50" ^(d)	82.68" x 60" x 31.50" ^(d)
Approximate Weight	1200lbs (16-circuit input)	1300lbs (16-circuit input)

(a) xx = disconnect quantity (06, 08, 10, 12, 14, or 16)
 aaa = disconnect rating (400 or 500)
 e = enclosure type ("H" for Hoffman, "R" for Rittal)
 (b) Contact Shoals for higher fused kA combinations.
 (c) External 120Vac required for fans.
 (d) Dimension refers to trade size. See project drawings for exact dimensions.

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

