



Item pictured is STG.DCD.01.C500SNDD.DSA

# 500A DISCONNECT BOX

## ABOUT

The Shoals™ BLA Disconnect series is an essential part of our innovative BLA system, and is compliant with NEC 2017/2020 standards. Providing isolation using a 100% load-break rated disconnect, these disconnect boxes remove the fuses and fuse holders from inside traditional combiner boxes and move them to the harness, where the cooler surrounds allow their more reliable performance.

Lab-proven under full load during static heating sequence testing, the BLA Disconnect is designed for maximum durability and years of uninterrupted, real-world service. Field installation time has been slashed, space for cable terminations generously increased, and O & M torque points reduced by up to 63%.

## FEATURES

- 500A, 1500V disconnect, 100% load-break rated
- Plated bus bars rated for 90°C, Cu/Al
- 2-hole NEMA 1/2" x 1-3/4" mounting configuration
- Breather vent reduces internal condensation
- Safety shield covers all live components
- Designed for ease of cable installation
- Surge protection device, Type I
- Type 4X pad-lockable enclosure
- Standard 5-year warranty
- Compliant with NEC 2017/2020
- ETL certified to UL1741

## OPTIONS

- Pre-punched conduit knockouts
- Pre-installed Type 4X glands
- Pre-installed HDG uni-strut
- Pre-installed HDG mounting kits
- Pre-installed drain vent

TECHNICAL INFORMATION	STG.DCD.01.C500SNDD.Des <sup>(a)</sup>	STG.DCD.01.C500SNOO.Des <sup>(a)</sup>
Max. System Voltage	1500 VDC	1500 VDC
Rated Output Current	500A	500A
Rated Input Current	500A	500A
Max. Short Circuit Current (I <sub>sc</sub> )	400A	400A
Short Circuit Withstand Rating	10kA	10kA
Number of Input Circuits	1	1
Input Wire Size	Up to (1) 750 MCM or (2) 600 MCM	Up to (1) 1000 MCM or (2) 800 MCM
Output Wire Size	Up to (1) 750 MCM or (2) 600 MCM	Up to (1) 1000 MCM or (2) 800 MCM
Ground Wire Size	(4) 1/0-14 AWG and (9) 6-14 AWG	(4) 1/0-14 AWG and (9) 6-14 AWG
Enclosure Rating	Type 4X	Type 4X
Max. Ambient Temp. Rating	50°C	50°C
Enclosure Size (H x W x D)	24" x 20" x 10" <sup>(b)</sup>	30" x 24" x 10" <sup>(b)</sup>
Approximate Weight	55 lbs	70 lbs

(a) e = enclosure type ("A" for Allied, "B" for ABB, or "S" for Stahlin)  
 s = surge type ("A" for ABB, "C" for Citel, "D" for Dehn, "M" for Mersen)  
 (b) Dimension refers to trade size. See project drawings for exact dimensions.  
 Product design and specification subject to change or modification without notice.

