



Item pictured is STG.DCB.xx.C400BAC.BSAN

# 1500V HIGH CURRENT COMBINER

## ABOUT

The Shoals™ High Current Combiner series is compliant with NEC 2023 and is used to combine multiple strings per circuit up to a 80A fuse size. This means a more than 50% reduction in return cables over a traditional combiner box.

Lab-proven under full load during static heating sequence testing with fuses installed, the High Current Combiner is designed for maximum durability and years of uninterrupted, real-world service. Field installation time has been slashed, space for cable terminations generously increased.

## FEATURES

- Finger-safe fuse holders
- Up to 600A, 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
- NEMA 4X pad-lockable enclosure
- Standard 5-year warranty
- Compliant with NEC 2023
- ETL certified to UL1741

## OPTIONS

- Pre-terminated whips with connectors
- Pre-punched conduit knockouts
- Pre-installed NEMA 4X glands
- Pre-installed HDG uni-strut
- Pre-installed HDG mounting kits
- Pre-installed drain vent

TECHNICAL INFORMATION	STG.DCB.xx.CaaadAC.BesN <sup>(a)</sup>	STG.DCB.xx.CaaadAB.BesN <sup>(a)</sup>	STG.DCB.xx.CaaadDB.BesN <sup>(a)</sup>	STG.DCB.xx.CaaadAO.BesN <sup>(a)</sup>
Rated Current	400A or 500A	400A or 500A	400A or 500A	400A, 500A, or 600A
Short Circuit Current Rating	10kA	10kA	10kA	10kA
Max. System Voltage	1500VDC	1500VDC	1500VDC	1500VDC
Max. Fuse Size (per string)	65A	65A	80A	65A
Number of Input Circuits	Up to 12	Up to 16	Up to 16	Up to 14
Positive Input Wire Size	1-11 AWG	1-11 AWG	2-12 AWG	1-11 AWG
Negative Input Wire Size	4-14 AWG	4-14 AWG	4-14 AWG	4-14 AWG
Positive Output Wire Size	Up to (1) 800 MCM or (2) 700 MCM	Up to (1) 900 MCM or (2) 750 MCM	Up to (1) 900 MCM or (2) 750 MCM	Up to (1) 1000 MCM or (2) 800 MCM
Negative Output Wire Size	Up to (1) 800 MCM or (2) 700 MCM	Up to (1) 900 MCM or (2) 750 MCM	Up to (1) 900 MCM or (2) 750 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	(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	Type 4X	Type 4X
Max. Ambient Temp. Rating	50°C	50°C	50°C	50°C
Enclosure Size (H x W x D)	24" x 30" x 10" <sup>(b)</sup>	24" x 30" x 10" <sup>(b)</sup>	24" x 30" x 10" <sup>(b)</sup>	30" x 36" x 10" <sup>(b)</sup>
Approximate Weight	75 lbs	80 lbs	80 lbs	105 lbs

(a) xx = number of inputs (02-16)  
 aaa = disconnect rating (400, 500, 600)  
 d = disconnect type ("B" for ABB or "S" for Socomec)  
 e = enclosure type ("A" for Allied or "S" for Stahlin)  
 s = surge type ("A" for ABB, "C" for Citel, "D" for Dehn, or "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.

