



# 1500V HIGH CURRENT COMBINER

## ABOUT

The Shoals High Current Combiner series is used to combine multiple strings per circuit up to a 65A 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 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
- NEMA 4X pad-lockable enclosure
- Standard 5-year warranty
- ETL certified to CSA C22.2 No. 290

## 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.CaaaBAC.BesN-CSA <sup>(a)</sup>
Max. System Voltage	1500 VDC
Rated Output Current	400A or 500A
Max. Short Circuit Current (I <sub>sc</sub> )	320A or 400A
Rated Input Current	48A / 52A <sup>(b)</sup>
Max. Overcurrent Protection	60A / 65A <sup>(b)</sup>
Number of Input Circuits	Up to 12
Positive Input Wire Size	1-11 AWG
Negative Input Wire Size	4-14 AWG
Positive Output Wire Size	Up to (1) 800 MCM or (2) 700 MCM
Negative Output Wire Size	Up to (1) 800 MCM or (2) 700 MCM
Ground Wire Size	(4) 1/0-14 AWG and (9) 6-14 AWG
Enclosure Rating	Type 4X
Max. Ambient Temp. Rating	50°C
Enclosure Size (H x W x D)	24" x 30" x 10" <sup>(c)</sup>
Approximate Weight	75 lbs

(a) xx = number of inputs (01-12)  
 aaa = disconnect rating (400 or 500)  
 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) Additional project information needed to determine max allowable fuse size.  
 (c) Dimension refers to trade size. See project drawings for exact dimensions.  
 Product design and specification subject to change or modification without notice.

