



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

# 1500V HIGH CURRENT COMBINER

## ABOUT

The Shoals High Current Combiner series is compliant with NEC 2017/2020 and 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 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 2017/2020

## 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.C400dAC.BesN <sup>(a)</sup>	STG.DCB.xx.C400dAP.BesN <sup>(a)</sup>	STG.DCB.xx.CaaadAO.BesN <sup>(a)</sup>
Max. System Voltage	1500 VDC	1500 VDC	1500 VDC
Rated Output Current	400A	400A	400A, 500A, or 600A
Rated Input Current	48A / 52A <sup>(b)</sup>	48A / 52A <sup>(b)</sup>	48A / 52A <sup>(b)</sup>
Max. Overcurrent Protection	60A / 65A <sup>(b)</sup>	60A / 65A <sup>(b)</sup>	60A / 65A <sup>(b)</sup>
Number of Input Circuits	Up to 12	Up to 12	Up to 14
Positive Input Wire Size	1-11 AWG	1-11 AWG	1-11 AWG
Negative Input Wire Size	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) 1250 MCM or (2) 900 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) 1250 MCM or (2) 900 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
Enclosure Rating	NEMA 4X	NEMA 4X	NEMA 4X
Max. Ambient Temp. Rating	50°C	50°C	50°C
Enclosure Size (H x W x D)	24" x 30" x 10" <sup>(c)</sup>	30" x 36" x 10" <sup>(c)</sup>	30" x 36" x 10" <sup>(c)</sup>
Approximate Weight	75 lbs	100 lbs	105 lbs

(a) xx = number of inputs (01-14)  
 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 or "C" for Citel)  
 (b) Additional project information needed to determine max allowable fuse size.  
 (c) Dimension refers to trade size. See project drawings for exact dimensions.

