



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

1500V HIGH CURRENT COMBINER

ABOUT

The Shoals High Current Combiner series is compliant with most international electrical codes^(a) 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 M12 x 44.5mm mounting configuration
- IP67 breather vent reduces internal condensation
- Safety shield covers all live components
- Designed for ease of cable installation
- Surge protection device, Type I
- IP67 pad-lockable enclosure
- Standard 5-year warranty
- TUV certified to IEC61439-2

OPTIONS

- Pre-terminated whips with connectors
- Pre-punched conduit knockouts
- Pre-installed IP68 glands
- Pre-installed HDG uni-strut
- Pre-installed HDG mounting kits
- Pre-installed drain vent

TECHNICAL INFORMATION	STG.DCB.xx.C400dAC.BesN ^(b)	STG.DCB.xx.C400dAP.BesN ^(b)	STG.DCB.xx.CaaadAO.BesN ^(b)
Max. System Voltage	1500 VDC	1500 VDC	1500 VDC
Rated Output Current	400A	400A	400A or 500A
Rated Input Current	48A / 52A ^(c)	48A / 52A ^(c)	48A / 52A ^(c)
Max. Overcurrent Protection	60A / 65A ^(c)	60A / 65A ^(c)	60A / 65A ^(c)
Number of Input Circuits	Up to 12	Up to 12	Up to 14
Positive Input Wire Size	6-50mm ²	6-50mm ²	6-50mm ²
Negative Input Wire Size	2.5-25mm ²	2.5-25mm ²	2.5-25mm ²
Positive Output Wire Size	Up to (1) 400mm ² or (2) 350mm ²	Up to (1) 633mm ² or (2) 500mm ²	Up to (1) 500mm ² or (2) 400mm ²
Negative Output Wire Size	Up to (1) 400mm ² or (2) 350mm ²	Up to (1) 633mm ² or (2) 500mm ²	Up to (1) 500mm ² or (2) 400mm ²
Ground Wire Size	(4) 2.5-55mm ² and (9) 2.5-16mm ²	(4) 2.5-55mm ² and (9) 2.5-16mm ²	(4) 2.5-55mm ² and (9) 2.5-16mm ²
Enclosure Rating	IP67	IP67	IP67
Max. Ambient Temp. Rating	50°C	50°C	50°C
Enclosure Size (H x W x D)	610 x 760 x 250 mm ^(d)	760 x 915 x 250 mm ^(d)	760 x 915 x 250 mm ^(d)
Approximate Weight	34 kgs	45 kgs	48 kgs

(a) Specific National Deviations may need to be evaluated

(b) 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)

(c) Additional project information needed to determine max allowable fuse size.

(d) Dimension refers to trade size. See project drawings for exact dimensions.

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

