

## Solar Combiners & Combiners with Integral Disconnects Switch For Grid Tied Systems

**UL 1741 Listed!**



UL File No. E330318

- cUL<sup>us</sup> 1741 Listed
- Rated for 600 VDC - continuous duty
- Touch-Safe fuse holders and power distribution blocks for safe operation
- 90°C output terminals
- Fiberglass enclosures with captive stainless steel screws and formed-in-place polyurethane seamless gasket provided as standard
- Also available in NEMA 3R painted steel or NEMA 4X stainless steel
- Configured for positive and negative grounded arrays
- 1000VDC rated capability - consult factory
- Smart combiners available (DC string monitoring) - consult factory



### Ordering Information (most commonly ordered configurations)

No. Of Strings	Solar Combiner Cat. #			No. Of Strings	Solar Combiner with Integral Disconnect Cat. #			Available Options
	N4X Fiberglass	N3R Sheet Steel	Description		N4X Fiberglass	N3R Sheet Steel	Description	
4	CCBF04 F15	CCBS04 F15	15A fused	8	CCBF08 F15 DS100	CCBS08 F15 DS100	15A fused, 100A integral disconnect	Enclosure Material
6	CCBF06 SP	CCBS06 SP	600VDC surge protection	12	CCBF12 F15 DS200	CCBS12 F15 DS200	15A fused, 200A integral disconnect	Fused
10	CCBF10	CCBS10	10 string	16	CCBF16 DS200 SP	CCBS16 DS200 SP	200A integral disconnect, 600VDC surge protection	Integral Disconnect Switch
12	CCBF12 F15	CCBS12 F15	15A fused	24	CCBF24 F15 DS200	CCBS24 F15 DS200	15A fused, 200A integral disconnect	Surge Protection
								Smart Combiner (DC String Monitoring)
								1000V Rated
								Harness Assemblies

### Catalog Numbering System

Use the table below to build a catalog number for a combiner configuration that matches your specific project requirement

BASE SOLAR COMBINER		WITH OPTIONAL FACTORY SUPPLIED FUSES		WITH OPTIONAL INTEGRAL DISCONNECT		W/OPTIONAL SURGE PROTECTION	DC MONITORING
CCBF	12	F	15	DS	200	SP	DCM

Enclosure Type	Number of Input Circuit	Fused	Fuse Amperage	Integral Disconnect	Trip Rating for Integral Disconnect	Surge Protection	DC Monitoring
CCBF (Fiberglass N4X)	01 (1 input circuit)	F (Fuses provided)	08 (8A fuse)	DS (Disconnect Switch for use with 1 - 48 input circuits)	100 (100A)	SP (Surge protection)	DCM (DC monitoring units installed)
CCBS (Painted Steel N3R)	02 (2 input circuit)	BLANK (Fuses not supplied by factory)	10 (10A fuse)	BLANK (No integral disconnect)	200 (200A)	• UL 1449 3rd Edition Listed	BLANK (No DC monitoring)
CCBS (Painted Steel N3R)	03 (3 input circuit)		12 (12A fuse)		400 (400A)	• 40kA Total Discharge Current (8/20 us)	
CCBS (Painted Steel N3R)	04 (4 input circuit)		15 (15A fuse)		BLANK (No integral disconnect)	• 30kA/600VDC Interrupting Rating	
CCBS (Painted Steel N3R)	05 (5 input circuit)		BLANK (Fuses not provided by factory)			• Small size takes up minimal space in enclosure (Only 2 inches wide)	
CCBS (Painted Steel N3R)	06 (6 input circuit)					BLANK (No surge protection)	
CCBS (Painted Steel N3R)	Offered up to 48 circuits						
CCBS (Stainless Steel N4X)		• Cooper Bussmann fuses recommended					
		- DCM fuses for 600VDC combiner boxes					
		- PV fuses for 1000VDC combiner boxes					

## Solar Pass Through Boxes For Use With Residential Applications



Pass through boxes are a low profile, cost effective way to group input wires/circuits and transition from solar (PV) cable to regular building wire. Because of the low power rating of the PV string, over current protection is not required.

- NEMA 4X
- Rated 600VDC continuous duty
- Factory installed cord grip

### Ordering Information

Catalog Number	Description
CPBF03	3 Circuit Pass Through Box
CPBF04	4 Circuit Pass Through Box

## Solar Cord Grips



Solar Cord Grips are used in both commercial and residential grid-tied PV solar applications and are designed to accommodate the entry of multiple PV wires coming into a combiner or pass through box. The Solar Cord Grips provide mechanical strain relief as well as a liquid tight seal around the solar panel wires.

### Ordering Information

Catalog Number	Size	Description
NCGS39	1"	9 Hole Solar Cord Grip
NCGS413	1-1/4"	13 Hole Solar Cord Grip

### Certifications and Compliances:

- UL/cUL Listed
- IP68
- Flammability Rating: 94-V2



For more information email us at [solarsolutions@cooperindustries.com](mailto:solarsolutions@cooperindustries.com) or visit [www.crouse-hinds.com](http://www.crouse-hinds.com) and click the contractor corner button for the most current information

