

BCBS 600Vdc and 1000Vdc Series Standard Combiner Boxes

Features

- 4 to 24 Input circuits
- 600Vdc or 1000Vdc Rated units
- Finger-safe Cooper Bussmann modular fuse holders*
- Configured for both positive and negative grounded arrays
- Single or dual 90°C output terminals
- Negative input terminal blocks
- Steel or fiberglass NEMA 3R, 4 or 4X enclosures with seamless door gaskets
- Operating temperature -40°C to 50°C
- Common configurations in stock for fast shipment**



BCBS Series Standard Box

Specifications						
Voltage	600Vdc Series			1000Vdc Series		
Rating standard	Listed to UL1741 cETL Certified to CSA Standard C22.2 No. 29			IEC Rated Components Self-Certified Fuse Gear		
Fuse type	600Vdc Midget fuses***			1000Vdc PV fuses†		
Number of input circuits	4 to 12	16	20 to 24	4 to 12	16	20 to 24
Input conductor range	4-16AWG	4-16AWG	4-16AWG	4-16AWG	4-16AWG	4-16AWG
Number of output conductors	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Output conductor range	350kcmil-6AWG	350kcmil-6AWG	350kcmil-6AWG	350kcmil-6AWG	350kcmil-6AWG	350kcmil-6AWG
Max fuse size††	25A††	20A	20A	25A	20A	20A
Max rated current (DC continuous)	310A	400A	400A	310A	400A	400A
Steel enclosure dimensions (in), weight	16x12x6, 30 lbs	16x16x6, 36 lbs	20x20x6, 46 lbs	16x12x6, 30 lbs	16x16x6, 36 lbs	20x20x6, 46 lbs
Fiberglass enclosure dim. (in), weight	16x14x7, 18 lbs	20x16x8, 22 lbs	24x20x8, 35lbs	16x14x7, 18 lbs	20x16x8, 22 lbs	24x20x8, 35lbs

Part Number System Standard Combiner Box Part Number System†

Example: BCBSK-12-10F S06 R

Series Prefix	BCBS – Standard Combiner Box	Blank - for 600Vdc systems	K - for 1000Vdc systems
Number of Poles	04 08 12 16 20 24		
600Vdc Fuses (Amps)††	00 – No Fuses Included	01 02 03 04	
1000Vdc Fuses (Amps)	01 02 03 04 05 06 08 10 12 15	20 25 (see Max fuse size in table)	
Enclosure	R – NEMA 3/3R	4 – NEMA 4 (Powder Coated Steel)	F – NEMA 4X (Fiberglass)
Surge Protective Device (SPD)	S06 - 600Vdc	S10 - 1000Vdc	
SPD Remote Contact Signaling	R - With remote signaling	Blank - no remote contact	

Typical Layout



Standard BCBS Series
4 to 24 Circuits
BCBS-12-00F Pictured

* See Data Sheet 2053 for details.

** Please verify stocked configurations with your Cooper Bussmann sales representative.

** Certain specifications may be modified to meet requirements, please consult factory.

*** See Data Sheet 2038 (DCM) or 2020 (KLM) for details.

† See Data Sheet 720110 for details.

†† 12 Circuit inputs are limited to 20A fuses.

‡ Total system ampacity (poles x fuse amp rating) may not exceed 400 amps.

‡‡ When fuses are specified, 600Vdc midget fuses are installed in holders.

BCBD Series with Integrated Disconnect

Features

- ETL Listed to UL1741 Standard
- cETL Certified to CSA Standard C22.2 No. 29
- 28, 55, 75, 150 and 245A Integrated disconnect switches
- 4 to 24 Input circuits
- Continuous duty rated at 600Vdc
- 600Vdc Midget fuses* for overcurrent protection
- Finger-safe Cooper Bussmann modular fuse holders**
- Configured for both positive and negative grounded arrays
- Single or dual 90°C output terminals
- Negative input terminal blocks
- Steel or fiberglass NEMA 3R, 4 or 4X enclosures with seamless door gaskets
- Operating temperature -40°C to 50°C
- Common configurations in stock for fast shipment***



BCBD Series Integrated Disconnect Box

Disconnect Rating (Amps)	Specifications†				
	28A	55A	75A	150A	245A
Number of input circuits	4	4	4 to 12	4 to 24	4 to 24
Input conductor range	4-14AWG	4-14AWG	4-14AWG	4-14AWG	4-14AWG
Number of output conductors	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
Output conductor range	2/0-14AWG	2/0-14AWG	350kcmil-6AWG	350kcmil-6AWG	350kcmil to 6AWG
Max fuse size	30A	30A	30A	6A to 30A††	10A to 30A††
Steel enclosure dimensions (in), weight	12x10x6, 15 lbs	12x10x6, 15 lbs	20x20x6, 42 lbs	20x20x6, 50 lbs, or 20x24x6, 50 lbs	24x24x6, 55 lbs
Fiberglass enclosure dimensions (in), weight	14x12x6, 12 lbs	14x12x7, 12 lbs	20x16x8, 28 lbs	24x20x18, 35 lbs, or 24x24x10, 35 lbs	24x24x8, 40 lbs

Part Number System Combiner Box with Disconnect Part Number System*

Example: BCBD150-12-10F = B C B D 1 5 0 - 1 2 - 1 0 F S 0 6 R

Series Prefix	BCBD – Combiner Box w/ Disconnect	_____
Disconnect Ampacity	28 55 75 150 245	_____
Number of Poles	04 08 12 16 20 24	_____
Fuses (Amps)††	00 – No Fuses Included 01 02 03 04	_____
	05 06 08 09 10 12 15 20 25 (see Max fuse size in table)	_____
Enclosure	R – NEMA 3/3R	_____
	4 – NEMA 4 (Powder Coated Steel)	_____
	F – NEMA 4X (Fiberglass)	_____
Surge Protective Device (SPD)	S06 - 600Vdc	_____
	S10 - 1000Vdc	_____
SPD Remote Contact Signaling	R - With remote signaling	_____
	Blank - no remote contact	_____

Typical Layout



Integral Disconnect on BCBD Series
4 to 24 Circuits
BCBD245-24-00R Pictured

* See Data Sheet 2038 (DCM) or 2020 (KLM) for details.

** See Data Sheet 2053 for details.

*** Please verify stocked configurations with your Cooper Bussmann sales representative.

† Certain specifications may be modified to meet requirements, please consult factory.

†† Depends on the number of input strings:

- BCBD150 (ckt/max A): 4/30A, 8/15A, 12/12A, 16/8A, 20/6A, 24/6A

- BCBD245 (ckt/max A): 4/30A, 8/30A, 12/20A, 16/12A, 20/12A, 24/10A

‡ Total system ampacity (poles x fuse amp rating) may not exceed ampacity of selected disconnect switch.

‡‡ When fuses are specified, 600Vdc midget fuses are installed in holders.

Recombiner (Array Combiner) Boxes

Features

- ETL Listed to UL1741 Standard
- cETL Certified to CSA Standard C22.2 No. 29
- 4 to 12 Input circuits
- Continuous duty rated at 600Vdc
- 600Vdc PVS-R Fuses* for overcurrent protection
- 100A and 200A Fuse case sizes
- 70A – 200A Fuse ampacity configurations
- Steel or fiberglass NEMA 3R, 4 or 4X rated enclosures with seamless door gaskets
- Operating temperature -40°C to 50°C



Fuse Case Size	Specifications**					
	100			200		
Number of input circuits	4	8	12	4	8	12
Number of output conductors	2	4	4	2	4	4
Input conductor range	6-2/0AWG	6-2/0AWG	6-2/0AWG	6-4/0AWG	6-4/0AWG	6-4/0AWG
Output conductor range	4-500kcmil	4-500kcmil	4-500kcmil	4-500kcmil	4-500kcmil	4-500kcmil
Max fuse rating	up to 100A	up to 100A	up to 100A	up to 200A	up to 200A	up to 200A
Max rated current (DC continuous)	760A	1520A	1520A	760A	1520A	1520A
Enclosure dimensions (in), weight	24x24x6, 34 lbs	36x36x8, 94 lbs	42x36x8, 110 lbs	36x36x8, 94 lbs	48x36x8, 135 lbs	60x36x8, 160 lbs

Recombiner Box Part Number System

Example: BCBR100-08-125R-S06R = B C B R 1 0 0 - 0 8 - 1 2 5 R S 0 6 R

Series Prefix	BCBR – Recombiner Box
Fuse Case Size	100 200
Number of Circuits	04 08 12
Fuses (Amps)***	000 – No Fuses Included 070 080 090 100 (100 amp fuse case size) 125 150 175 200 (200 amp fuse case size)
Enclosure	R – NEMA 3/3R 4 – NEMA 4 (Powder Coated Steel) F – NEMA 4X (Fiberglass)
Surge Protective Device (SPD)	S06 - 600Vdc
SPD Remote Contact Signaling	R - With remote signaling Blank - no remote contact

* See Data Sheet 4203 for details.

** Certain specifications may be modified to meet requirements, please consult factory.

*** Fuse ampacity must coincide with fuse case size specified e.g., 100A or 200A.

Integrated Surge Protective Device*

Features

- Only true UL 1449 3rd Edition (Type 2)**
- IEC 61643-11 Type 2, IEC 61643-1 Class II
- Available in standard and disconnect combiner boxes***
- UL 94V0 Thermoplastic material
- IP20 Finger-safe
- 600Vdc, 1000Vdc, 1200Vdc configurations
- *easyID*[™] Visual status indication
- Available with remote contact signaling
- Operating temperature -40°C to 80°C
- Five year warranty†



BSPH _____ YPV(R)

easyID[™]
Visual Status Indication



Remote Signal
Contact Available



Specifications			
Max Continuous Operating Voltage	600Vdc	1000Vdc	1200Vdc
Total Discharge Current	40kA	40kA	30kA
Voltage Protection Level	<2.5kV	<4.0kV	<4.5kV
Voltage Protection Level at 5kA	<2.0 kV	<3.5kV	<4.0kV
Integrated Fuse Breaking Capacity	30kA	30kA	30kA
Nominal Discharge Current	12.5kA	12.5kA	12.5kA
Max Discharge Current	25kA	25kA	25kA
Response time	<25ns	<25ns	<25ns
Min Conductor Ratings		60/75°C 14AWG	
Max Conductor Ratings	60/75°C 2AWG Stranded 4AWG Flexible		

Dimensions - mm



Shown with optional remote contact signaling

Module Circuit Diagrams



BSPH _____ YPV(R)

Shown with optional remote contact signaling

* See Data Sheet 2055 for additional details.

** Does not apply to 1200Vdc unit.

*** Surge module may increase the enclosure size requirement, please see factory for specific sizes.

† See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at www.cooperbussmann.com/surge.

Current Monitoring Device

Features

- Available in standard and disconnect combiner boxes*
- Uses Obvius Solar Current Monitor (SCM) unit
- Unique “Mesh” technology optimizes routing communications with no configuration
- Twisted pair output or wireless communication
- 8 or 16 Input circuit monitoring units
- Monitors 4 to 24 input circuits



Specifications	
Processor	60MHz Arm7 embedded CPU processor
LEDs	3 x RF, 2 x RS 485, 2 x pulse, alive, alarm
Protocol	Modbus RTU
Address Setting	Modbus address may be set from 1 to 247 via DIP switch
Inputs	<ul style="list-style-type: none"> - 2 pulse inputs, dry contact - Monitor consumption/rate/min/max - Pulse rate/width user selectable to 10Hz, 50Hz, 100Hz, or 250Hz. - Pulse rate option: 10Hz, minimum pulse width 50ms - Pulse rate option: 50Hz, minimum pulse width 10ms - Pulse rate option: 100Hz, minimum pulse width 5ms - Pulse rate option: 250Hz, minimum pulse width 2ms - Contact closure threshold 100W to 2.5kW user selectable - Pulse count values are stored in non-volatile memory.
Communications	1 RS-485 (+, -, S), 9600/19200 baud, N, 8, 1, two wire. Supports up to 32 external devices per ModHopper (expandable)
RF	Frequency Hopping, ISM band, -SN Option: 400MHz Receive Only (Sensor Network)
Environmental	North America: Temperature 0° – 50°C, 0 – 95% humidity, non-condensing. Pollution degree 2, altitude up to 2000M
EMC	FCC CFR 47 Part 15, Class A
Size	6.5x4.5x2" (260x64x45mm)
Weight	1.25lbs (0.67 kg)
Power Input	9-30Vdc, 200mA

*Monitoring module may increase the enclosure size requirement, please consult factory for specific sizes.

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