



Series: SCB-CB5,6,7

Pre-wired Solar Combiner with Circuit Breakers



Model SCB-FHDX-4-8A Shown

FEATURES & BENEFITS

- 5, 6 or 7-String Configuration
- Continuous Duty Rated at 150V DC
- Touch-safe Circuit Breakers
- Weatherproof, Non-conductive Box
- All UL Compliant Components
- Positive/Negative Output Disconnect Switch

APPLACATIONS

- Remote Solar Power Systems
- Reduces Wiring to Inverter Box
- RV, Sail Boat Solar Power System

DESCRIPTION

Pre-wired 5, 6 or 8-String Solar Power Combiners feature a weatherproof, non-conductive enclosure. Models are pre-wired with MC4 connectors on the input strings and are available with 5, 10, 12, 15 or 20 Amp circuit breakers. Circuit breakers are rated for 150V DC continuous duty per string.



Solar Safety Label



Mounting Feet



Optional Lightning/Storm Module



Junction Blocks



Circuit Breakers



Pre-wired MC4 Connectors



Weatherproof Enclosure with Gasketed Lid

Series: SCB-CB5,6,7

General Specifications

Operating Temperature: -40 to 130 °F (-40 to 60 °C)

*Lightning/Surge Module Option: 500V

Enclosure Size: 11.8 x 7.9 x 5"

Enclosure: Material: PC/PBT Blended Plastic

Enclosure Rating: NEMA 4X, UL Listed

Mounting Feet: Stainless Steel (Included)

Output Cable Glands: Included (Not Installed)



Available Models

Model Number	SCB-CB5-5A-PW-MC4	SCB-CB6-5A-PW-MC4	SCB-CB8-5A-PW-MC4
Input Strings/ Circuit Breakers	5	6	8
Input Connection	MC4	MC4	MC4
Output Connection	2/0-14 AWG	2/0-14 AWG	2/0-14 AWG
Max Voltage Rating Per String	150V DC	150V DC	150V DC
Circuit Breaker Rating	5A	5A	5A
Max Total DC Output Current	25 Amps	30 Amps	40 Amps

Model Number	SCB-CB5-10A-PW-MC4	SCB-CB6-10A-PW-MC4	SCB-CB8-10A-PW-MC4
Input Strings/ Circuit Breakers	5	6	8
Input Connection	MC4	MC4	MC4
Output Connection	2/0-14 AWG	2/0-14 AWG	2/0-14 AWG
Max Voltage Rating Per String	150V DC	150V DC	150V DC
Circuit Breaker Rating	10A	10A	10A
Max Total DC Output Current	50 Amps	60 Amps	80 Amps

Model Number	SCB-CB5-12A-PW-MC4	SCB-CB6-12A-PW-MC4	SCB-CB8-12A-PW-MC4
Input Strings/ Circuit Breakers	5	6	8
Input Connection	MC4	MC4	MC4
Output Connection	2/0-14 AWG	2/0-14 AWG	2/0-14 AWG
Max Voltage Rating Per String	150V DC	150V DC	150V DC
Circuit Breaker Rating	12A	12A	12A
Max Total DC Output Current	60 Amps	72 Amps	96 Amps

Model Number	SCB-CB5-15A-PW-MC4	SCB-CB6-15A-PW-MC4	SCB-CB8-15A-PW-MC4
Input Strings/ Circuit Breakers	5	6	8
Input Connection	MC4	MC4	MC4
Output Connection	2/0-14 AWG	2/0-14 AWG	2/0-14 AWG

Max Voltage Rating Per String	150V DC	150V DC	150V DC
Circuit Breaker Rating	15A	15A	15A
Max Total DC Output Current	65 Amps	90 Amps	120 Amps

Model Number	SCB-CB5-20A-PW-MC4	SCB-CB6-20A-PW-MC4	SCB-CB8-20A-PW-MC4
Input Strings/ Circuit Breakers	5	6	8
Input Connection	MC4	MC4	MC4
Output Connection	2/0-14 AWG	2/0-14 AWG	2/0-14 AWG
Max Voltage Rating Per String	150V DC	150V DC	150V DC
Circuit Breaker Rating	20A	20A	20A
Max Total DC Output Current	100 Amps	100 Amps	160 Amps

*Units are available with a Lightning/Surge module installed on the box exterior. To order a unit with this option add "-LM" to model number. Example: SCB-CB6-10A-PW-MC4-LM

Note: Output cable glands shown in pictures are included. The cable glands are not installed and holes are not drilled in the box so you can use a conduit fitting instead of the glands.

Note: Continued product improvements make specifications subject to change without notice. Check www.imagineinstruments.com for the latest product information and updates

© 2016 :: Imagine Instruments LLC :: 4500 Williams Drive, Ste 212-318 :: Georgetown, TX 78633 :: p. (855)574-6243
e-mail: info@imagineinstruments.com :: www.imagineinstruments.com

Released: 12 April, 2016 :: Rev: A