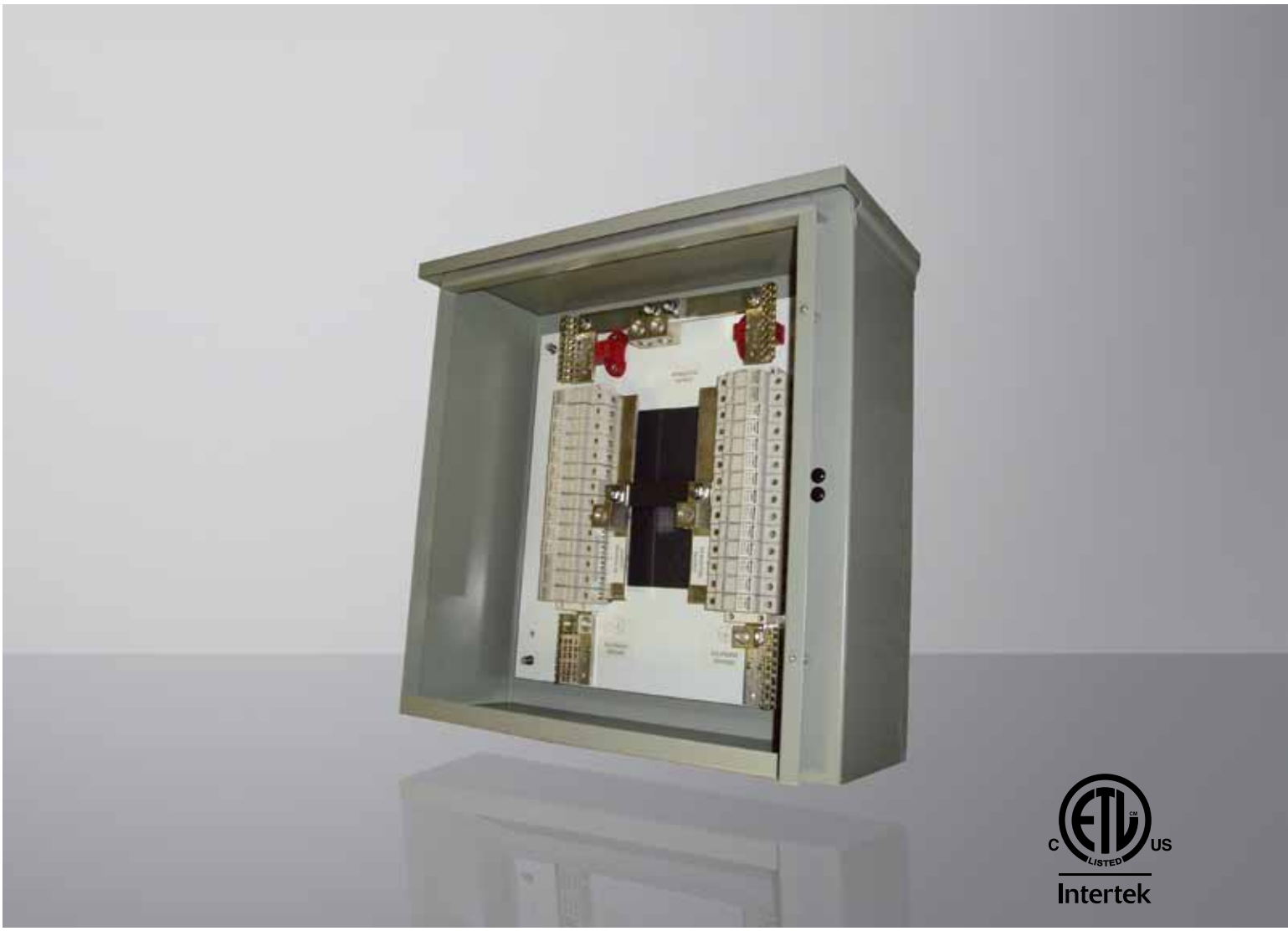


Certified

- ELT Listed to UL 1741 for countries that require certification

Convenient

- Greatly simplifies input and output wiring
- Available in 6 to 52 circuit configurations

Reliable

- Reliable bus-work for efficient high current conductor combining
- Compact, rugged NEMA 3R/4 wall mount steel enclosure

Safe

- PV positive wires all land directly on Touch Safe™ fuse holders

SUNNY BOY/SUNNY CENTRAL COMBINER BOXES

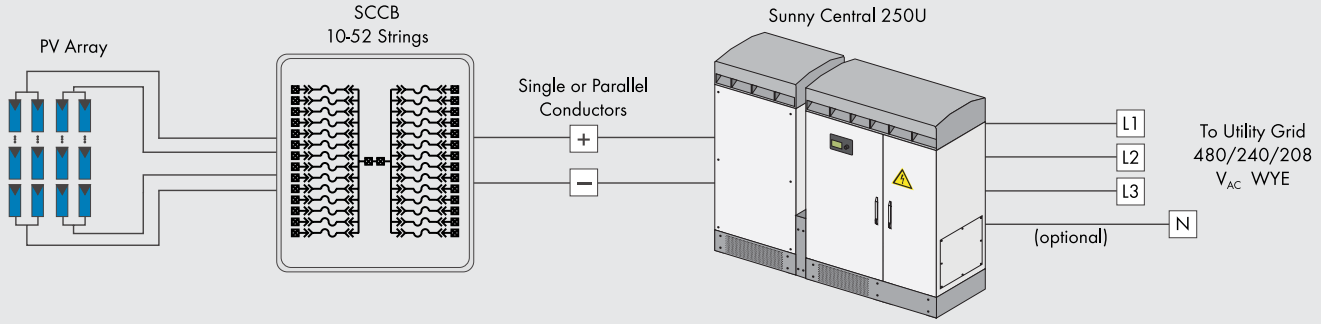
Simplify wiring for added convenience and safety

SMA's Sunny Boy/Sunny Central Combiner Boxes are ETL Listed to UL 1741 for countries requiring certification. Available in sizes ranging from six to 52 PV inputs, they provide greater flexibility and expandability in system design. Oversized bus-work adds high efficiency and dependability where it's needed most. The large NEMA 3R/4 enclosure provides ample room for conductors, which reduces installation time. Designed with installers in mind, the Sunny Boy/Sunny Central Combiner Boxes save valuable time and resources while improving system design and reliability.

Technical data	SBCB-6 (Sunny Boy)	SCCB-12 (Sunny Central)	SCCB-28 (Sunny Central)	SCCB-52 (Sunny Central)
Number of Inputs (Positive & Negative)	6	12	28	52
Positive Input Wire Size	10 to 6 AWG	10 to 6 AWG	10 to 6 AWG	10 to 6 AWG
Positive Input Terminal Torque	14 in-lb.	14 in-lb.	14 in-lb.	14 in-lb.
Negative Input Wire Size	10 to 6 AWG	10 to 6 AWG	10 to 6 AWG	10 to 6 AWG
Negative Input Terminal Torque	35 in-lb.	35 in-lb.	35 in-lb.	35 in-lb.
Output Wire Size	6 AWG to 350 KCMIL	6 AWG to 350 KCMIL	6 AWG to 300 KCMIL	6 AWG to 300 KCMIL
Output Terminal Torque	350 in-lb.	350 in-lb.	350 in-lb.	350 in-lb.
Max. Input Fuse Rating (Midget)	15 A, 600 V_{DC}	20 A, 600 V_{DC}	15 A, 600 V_{DC}	8 A, 600 V_{DC}
Max. Output Current	90 A_{DC}	240 A_{DC}	420 A_{DC}	416 A_{DC}
Max. Continuous Output Current	72 A_{DC}	192 A_{DC}	336 A_{DC}	333 A_{DC}
Max. Number of Output Wires	1 Pos, 1 Neg	1 Pos, 1 Neg	2 Pos, 2 Neg	2 Pos, 2 Neg
PV Array Configuration	Negative Grounded*	Negative Grounded*	Negative Grounded*	Negative Grounded*
Enclosure Type	NEMA 3R/4, Steel	NEMA 3R/4, Steel	NEMA 3R/4, Steel	NEMA 3R/4, Steel
Weight (Approximate)	11 lbs	48 lbs	56 lbs	70 lbs
Dimensions W x H x D in inches	8 x 10 x 6	16 x 16 x 6	20 x 20 x 8	30 x 42 x 12

Other sizes and designs available upon request.

*Fusing available on positive or negative input, specify when ordering



SMA's line of Sunny Boy and Sunny Central Combiner Boxes represent a culmination of experience with the difficulties of combining large numbers of PV strings. This simple component has become known as a common point of failure in large PV arrays. The SMA design minimizes the number of components, resulting in the most robust, easy to install, low-cost and reliable combiner boxes in the PV industry. Wires are landed directly to individual Touch Safe™ fuse holders. The fuse holder outputs are combined into heavy-duty bus-bar combs where the output wires are connected to over-sized mechanical lugs. All wiring is orderly routed through the enclosure, minimizing the chance of shorting caused by pinched or abraded wires. Individual PV string circuit fuses may be safely de-energized and removed by opening the Touch Safe™ fuse holders. No special tools are required. Output wires may be paralleled, keeping wire sizes small and easy to pull through conduit. Combiner boxes may also be paralleled to increase the total number of PV strings. The steel enclosure is rated for outdoor installations and all SMA combiner boxes are ETL Listed to UL 1741. Please call for availability of models not listed in the chart above or for special order configurations.

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Toll Free +1 888 4 SMA USA
www.SMA-America.com

SMA America, LLC