RF-3, RF-4, RF-6

Residential Grounded DC String Combiner Boxes

The Soltection RF-3, RF-4, and RF-6 Combiner Boxes support the combination of up to three, four, or six strings. Housed in a Vynckier fiberglass enclosure, the Soltection combiner boxes offer unparalleled protection against the elements and the sun. The large and oversized busbars reduce losses and offer improved efficiency for connections.

Key Features

- Mountable on solar rail using brackets.
- Works with grounded string inverters.
- NEMA 4X fiberglass enclosure with 20 year usable outdoor life.
- Touch-Safe fuse holders and negative terminals.

Electrical Specifications

- Maximum Voltage: 1000V AC / DC
- Number of Inputs: 3 (RF-3), 4 (RF-4), 6 (RF-6)
- Input Wire Size Range: #6 - #14 AWG
- Output Wire Size Range: #6 - 250MCM AWG
- Connector Type: Screw Clamp
- Maximum Current Per Terminal: 24A
- Maximum Fuse Size: 30A
- Maximum Combined Current (RF-3): 72A
- Maximum Combined Current (RF-4): 96A
- Maximum Combined Current (RF-6): 144 A

Physical Specifications

- Enclosure Rating: NEMA 4X
- Enclosure Material: Vyncopreg V5010(f1) Fiberglass
- Outer Dimensions (RF-3, RF-4): 11.32” x 9.32” x 5.39”
- Outer Dimensions (RF-6): 13.32” x 11.32” x 5.52”
- Shipping Carton Size (RF-3, RF-4): 12” x 10” x 6”
- Shipping Carton Size (RF-6): 14” x 12” x 6”
- Shipping Weight: 5.10 lb (RF-3), 5.25 lb (RF-4), 6.55 lb (RF-6)

Certifications:

Soltection by Vynckier
Vynckier Enclosure Systems
271 McCarty Street, Houston, TX 77029 USA
+1.866.227.0577
www.soltection.com

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Sample Wiring Diagrams for Model RU-1-LP:

Accessories for Model RU-1-LP:

SOLT-VM77-MKIT

Rail mounting bracket for RU-2-LP transition box