



## Commercial Transition Boxes

# CUF Series

The CUF Series solar transition boxes (also known as pass through or pass thru boxes) provide a convenient location for transitioning wires in a commercial array when fusing is not required.

## Specifications

### Electrical

- Maximum Voltage: 1000 V
- Maximum Current: 75 A
- Number of Pairs: 4 - 20
- Wire Size (Input and Output): #24 - #3 AWG
- Max Operating Temperature: 50°C

### Enclosure

- Material: Fiberglass Reinforced Polyester (FRP)
- Environmental Rating: NEMA 4X

Number of Pairs	Vynckier VJ Series Enclosure	Number of Pairs	Vynckier VJ Series Enclosure
4	VJ1008W	13	VJ1816W
5	VJ1008W	14	VJ1816W
6	VJ1210W	15	VJ2016W
7	VJ1412W	16	VJ2016W
8	VJ1412W	17	VJ2016W
9	VJ1614W	18	VJ2016W
10	VJ1816W	19	VJ2016W
11	VJ1816W	20	VJ2016W
12	VJ1816W		

### Certifications

- cULus Listed to UL 1741 Standards



## Ordering Part Numbers

### Number of Input Pairs

The number of circuits needed

4 to 20

CUF **xx** 1000V

- Consult Factory for Bulkheads, Cordgrips

### Vynckier Enclosure Systems

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P/N: 800-0009-0

## 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.



Model RF-4 Shown

### 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)  
Shipping Weight: 6.55 lb (RF-6)

### Certifications:



## RF-8, RF-12

### Large Residential Grounded DC String Combiner Boxes

The Soltection RF-8 and RF-12 Combiner Boxes support the combination of up to eight or twelve 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.



Model RF-12 Shown

### 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 : 8 (RF-8), 12 (RF-12)  
Input Wire Size Range: #6 - #14 AWG  
Output Wire Size Range: 3/0 - 350MCM AWG  
Connector Type: Screw Clamp  
Maximum Current Per Terminal: 24A  
Maximum Fuse Size: 30A  
Maximum Combined Current: 192 A (RF-8), 288 A (RF-12)

### Physical Specifications

Enclosure Rating: NEMA 4X  
Enclosure Material: Vyncopreg V5010(f1) Fiberglass  
Outer Dimensions: 17.32" x 15.32" x 6.65"  
Shipping Carton Size: 18" x 16" x 7"  
Shipping Weight: 7.10 lb (RF-8), 7.37 lb (RF-12)

### Certifications:



## RF-2-3, RF-2-4, RF-2-6

### Residential Ungrounded Combiner Boxes

The Soltection RF-2-3, RF-2-4, and RF-2-6 Combiner Boxes support the combination of up to three, four, or six strings. In ungrounded combiner boxes, fuses are provided for both the positives and negatives. 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.



Model RF-2-4 Shown

### 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.**

### Electrical Specifications

Maximum Voltage: 1000V AC / DC  
Number of Inputs : 3 (RF-2-3), 4 (RF-2-4), 6 (RF-2-6)  
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-2-3, RF-2-4): 11.32" x 9.32" x 5.39"  
Outer Dimensions (RF-2-6): 13.32" x 11.32" x 5.52"  
Shipping Carton Size (RF-2-3, 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)  
Shipping Weight: 6.55 lb (RF-6)

### Certifications:

