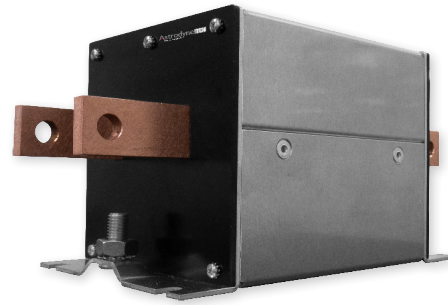


# RP695

## COMPACT HI-CURRENT DC FILTER FOR EV CHARGERS

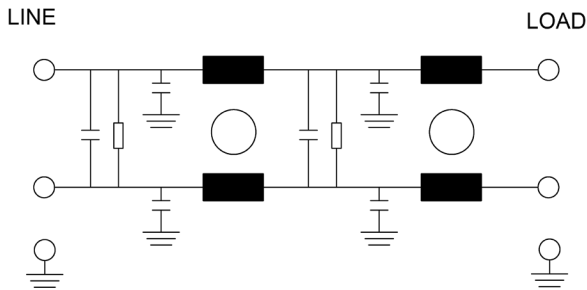
### FEATURES

- » **Rated currents** include **450A, 600A, 1000A and 1600A**
- » Dual Stage Line Filter
- » Available with **B** (bus bars) option
- » High Voltage Design
- » *\*Agency Approval to UL60939-3, CSA C22.2 8-13, EN 60939*
- » Y-cap value can be adjusted to fit specification



\*Certification in process

### ELECTRICAL SCHEMATIC



### HOW TO ORDER

RP695- X - Y - Z

- Z = TERMINAL (-T)
- Y = Y-CAP, NF
- X = RATED CURRENT
- RP695 = FILTER SERIES

**NOTE:** USE ANY COMBINATION OF -X (AMPS) WITH ANY -Y VALUES  
E.G. **RP695-450-15-B** (450AMPS WITH 15 NF YCAP)

For **X**, **Y**, and **Z** options see product specification table.

### SPECIFICATIONS

|                               |                                                                |
|-------------------------------|----------------------------------------------------------------|
| <b>MAX. OPERATING VOLTAGE</b> | 1500VDC +10%                                                   |
| <b>AMBIENT TEMPERATURE</b>    | -25 TO 50°C                                                    |
| <b>CLIMATIC CATEGORY</b>      | 25/100/21                                                      |
| <b>TERMINALS (-T)</b>         | B: BUSBARS 450-600 A<br>(8X25), 1000A (8X40),<br>1600A (10X60) |
| <b>TYP. WEIGHT, LBS (KG)</b>  | 6.4 - 12 (2.9 - 5.45)                                          |

### HIPOT RATINGS

|                       |          |
|-----------------------|----------|
| <b>LINE TO GROUND</b> | 6000 VDC |
|-----------------------|----------|

### TYPICAL APPLICATIONS

- ✓ DC fast chargers
- ✓ High power rectifiers
- ✓ Inverters
- ✓ Induction charging
- ✓ Industrial chargers
- ✓ Solar

# RP695

## COMPACT DC FILTER FOR EV CHARGERS

| MODEL NO.         | RATED CURRENT, A @ 40° C | Y-CAP, nF | TERMINAL OPTIONS  |                   |                   |                   | MAX. DIMENSIONS" (MM) |              |             |
|-------------------|--------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-----------------------|--------------|-------------|
|                   |                          |           | (W) INPUT/ OUTPUT | (S) INPUT/ OUTPUT | (C) INPUT/ OUTPUT | (B) INPUT/ OUTPUT | WIDTH                 | (LENGTH)     | HEIGHT      |
| RP695-450-0-B     | 450                      | 0         |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-450-15-B    | 450                      | 15        |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-450-100-B   | 450                      | 100       |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-450-1000-B  | 450                      | 1000      |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-450-2000-B  | 450                      | 2000      |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-600-0-B     | 600                      | 0         |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-600-15-B    | 600                      | 15        |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-600-100-B   | 600                      | 100       |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-600-1000-B  | 600                      | 1000      |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-600-2000-B  | 600                      | 2000      |                   |                   |                   | ✓                 | 4.80" (122)           | 10.24" (260) | 5.04" (128) |
| RP695-1000-0-B    | 1000                     | 0         |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 3.94" (100) |
| RP695-1000-15-B   | 1000                     | 15        |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 3.94" (100) |
| RP695-1000-100-B  | 1000                     | 100       |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 3.94" (100) |
| RP695-1000-1000-B | 1000                     | 1000      |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 3.94" (100) |
| RP695-1000-2000-B | 1000                     | 2000      |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 3.94" (100) |
| RP695-1600-0-B    | 1600                     | 0         |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 5.12" (130) |
| RP695-1600-15-B   | 1600                     | 15        |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 5.12" (130) |
| RP695-1600-100-B  | 1600                     | 100       |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 5.12" (130) |
| RP695-1600-1000-B | 1600                     | 1000      |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 5.12" (130) |
| RP695-1600-2000-B | 1600                     | 2000      |                   |                   |                   | ✓                 | 5.51" (140)           | 12.44" (316) | 5.12" (130) |

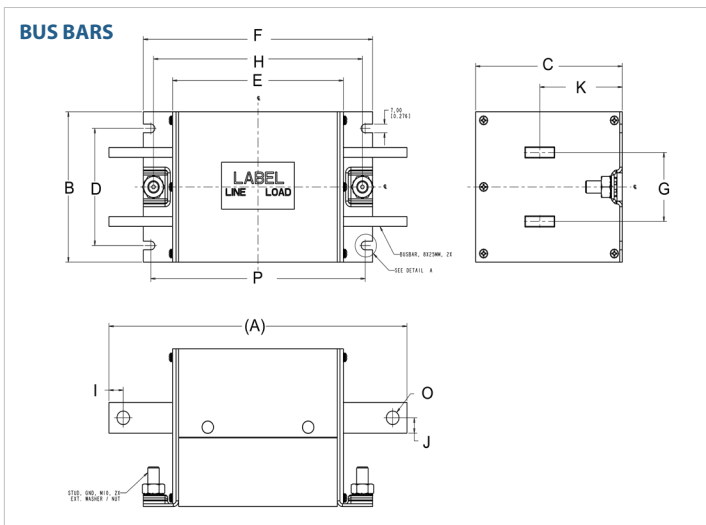
### TYPICAL INSERTION LOSS, dB (50/50 Ohm)

| Amps  | Freq (MHz) | 0.15 | 0.5 | 1.0 | 5  | 10 | 30 |
|-------|------------|------|-----|-----|----|----|----|
|       |            |      |     |     |    |    |    |
| RP695 | CM (dB)    | 0    | 27  | 34  | 19 | 14 | 9  |
|       | DM (dB)    | 33   | 37  | 27  | 20 | 14 | 11 |

# RP695

## COMPACT **DC** FILTER FOR EV CHARGERS

### RP695 MECHANICAL OUTLINES (MM)



| SERIES                     | (A)             | B              | C              | D              | E              | F               | G             | H                | I                | J                | K               | O                | P              |
|----------------------------|-----------------|----------------|----------------|----------------|----------------|-----------------|---------------|------------------|------------------|------------------|-----------------|------------------|----------------|
| <b>BUSBARS<br/>(450A)</b>  | 10.24"<br>(260) | 4.80"<br>(122) | 5.04"<br>(128) | 3.74"<br>(95)  | 5.87"<br>(149) | 1.87"<br>(200)  | 2.21"<br>(56) | 7.17"<br>(182.2) | 0.492"<br>(12.5) | 0.492"<br>(12.5) | 2.83"<br>(72)   | 0.433"<br>(11)   | 7.36"<br>(187) |
| <b>BUSBARS<br/>(600A)</b>  | 10.24"<br>(260) | 4.8"<br>(122)  | 5.04"<br>(128) | 3.74"<br>(95)  | 5.87"<br>(149) | 7.87"<br>(200)  | 2.21"<br>(56) | 7.17"<br>(182.2) | 0.492"<br>(12.5) | 0.492"<br>(12.5) | 2.83"<br>(72)   | 0.433"<br>(11)   | 7.36"<br>(187) |
| <b>BUSBARS<br/>(1000A)</b> | 12.44"<br>(316) | 5.51"<br>(140) | 3.94"<br>(100) | 4.49"<br>(114) | 7.87"<br>(200) | 9.84"<br>(250)  | 2.21"<br>(56) | 9.14"<br>(232.2) | 0.492"<br>(12.5) | 0.787"<br>(20)   | 1.94"<br>(49.2) | 0.413"<br>(10.5) | 8.94"<br>(227) |
| <b>BUSBARS<br/>(1600A)</b> | 12.44"<br>(316) | 5.51"<br>(140) | 5.12"<br>(130) | 4.49"<br>(114) | 8.66"<br>(220) | 10.63"<br>(270) | 2.21"<br>(56) | 9.93"<br>(252.2) | 0.492"<br>(12.5) | 1.181"<br>(30)   | 2.87"<br>(73)   | 0.413"<br>(10.5) | 9.72"<br>(247) |