# The J/RJ Series   J

The J Series enclosures follow the original design of fiberglass enclosure products featuring a modest overhang cover on a flange mounted base. This simple but elegant concept offers unobstructed side-walls, built in mounting capabilities and the strength characteristics associated with a protective wrap around cover that is hinged, latched or screwed down.

Stahlin's J series enclosures are designed for general electrical and electronic applications and any application that has associated environmental concerns.  Simple in its design, the enclosure can be configured with cutouts, windows and modifications that make your finished product truly unique.

J series products enhance any instrument installation.  They accommodate standard back panel mounting but offer a range of panels, including an elevated dead front panel that is highly visible through a cover mounted window.

If extra depth is required, the series offers a "raised cover" that increases depth by adding to the depth of the cover. This feature can be particularly effective with cover mounted components. There is a multitude of variations available in this simple but elegant design.

## J/RJ Series Attributes

- Available in 3 cover options on certain size enclosures:
  1. Opaque Cover
  2. Flush Bonded Window
  3. Clear Polycarbonate Cover
- Overhang cover on smooth sided base
- High temperature, flame retardant, non-corrosive
- All stainless hardware latches and screws
- Full length stainless steel hinge
- Chemically resistant fiberglass reinforced polyester
- Submersible, non corrosive, environmental designs
- Stainless steel retention chain on screw covers
- Continuous polyurethane gasket

## J/RJ Series Industry Standards

| | |
|---|---|
| **UL/cUL 50** | File E64358 |
| | Type 1, 3R, 4X, 6P, 12 |
| **NEMA 250** | Type 1, 3R, 4X, 6P, 12 |
| **CSA Std C22.2** | File LR069014 |
| | Type 1, 3R, 4X, 6P, 12 |
| **UL1741** | File E333478 |
| | W, HW, HPL, FHW, FHPL |
| **Temperature Range** | (-76°F to +274°F) (-60°C to +134°C) |
| **Temperature Range Window** | (-26°F to +170°F) (-32°C to +76°C) |
| **Temperature Range Clear Cover** | (-30°F to +248°F) (-34°C to +120°C) |
| **Flammability Rating** | UL94-5V |
| **Cover Flammability** | UL94-V0 |
| **Window Flammability** | UL94-HB |
| **Self extinguishing** | Non-haloginated, non-flame propagating |
| **Chemical Resistance** | Full chemical resistance charts listed in appendix |
| **NFPA No. 101 Flame Spread** | Class A (1) |

# Technical Specifications - J Series

*Opaque Cover "W" configuration - 4 cover screws, lift off cover*

## W | Construction

| | |
|---|---|
| **Material** | Hot compression molded fiberglass reinforced polyester (thermoset) |
| **Gasket** | Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal |
| **Pan head screws** | Minimized protruding surfaces |
| **Stainless Steel Hardware** | 300 Series stainless used on all external hardware |
| **Molded in Mounting Flange** | Molded in flange for ease of mounting. |
| **Mounting Bosses** | Panel mounting capability for fixed rear panel |
| **Metal inserts** | Back panel utilizes threaded brass inserts accepting 10-32 screws |
| **Soft Edge Design** | Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris |
| **Cover retention chain** | Stainless steel beaded chain for securing cover after lift off |

## W | Industry Standards

| | |
|---|---|
| **UL/cUL 50** | File E64358  Type 1, 3R, 4X, 6P, 12 |
| **NEMA 250** | Type 1, 3R, 4X, 6P, 12 |
| **CSA Std C22.2** | File LR069014  Type 1, 3R, 4X, 6P, 12 |
| **Temperature Range** | (-76°F to +274°F) (-60°C to +134°C) |
| **Flammability Rating** | UL94-5V |
| **Self Extinguishing** | Non-haloginated, non-flame propagating |
| **Chemical Resistance** | Full chemical resistance charts listed in appendix |
| **NFPA No. 101 Flame Spread** | Class A (1) |

## W | Accessories

### Back Panels

| | | |
|---|---|---|
| **Aluminum** | BP__AL | pg. 149 - 150 |
| **Fiberglass** | BP__FG | pg. 149 - 150 |
| **Stainless Steel** | BP__SS | pg. 149 - 150 |
| **Carbon Steel** | BP__CS | pg. 149 - 150 |

### Accessories

| | |
|---|---|
| **Drain & Breather Vents** | pg. 144, 146 |
| **Hole Plugs** | pg. 145 |
| **Assorted Hubs and Cord Grips** | pg. 145, 148 |
| **All Other Accessories** | pg. 144 - 159 |

## W | Modifications

| | |
|---|---|
| **Custom Colors** | pg. 12 - 13 |
| **Silk Screening** | pg. 12 - 13 |
| **EMI/RFI Shielding** | pg. 12 - 13 |
| **Custom Window** | pg. 12 - 13 |
| **Custom Cutouts/Holes** | pg. 12 - 13 |

*NOTES:*

# HW

## Technical Specifications - J Series

*Opaque Cover "HW" configuration - Hinged, 2 cover screws*

### HW  *Construction*

| | |
|---|---|
| **Material** | Hot compression molded fiberglass reinforced polyester (thermoset). Available standard in Glacier Grey or White |
| **Gasket** | Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal |
| **Pan head screws** | Minimized protruding surfaces |
| **Stainless Steel Hardware** | 300 Series stainless used on all external hardware |
| **Molded in Mounting Flange** | Molded in flange for ease of mounting. |
| **Mounting Bosses** | Panel mounting capability for fixed rear panel |
| **Metal inserts** | Back panel utilizes threaded brass inserts accepting 10-32 screws |
| **Soft Edge Design** | Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris |
| **Color** | Available Standard in Glacier Grey or White |

### HW  *Industry Standards*

| | |
|---|---|
| **UL/cUL 50** | File E64358  Type 1, 3R, 4X, 6P, 12 |
| **NEMA 250** | Type 1, 3R, 4X, 6P, 12 |
| **CSA Std C22.2** | File LR069014  Type 1, 3R, 4X, 6P, 12 |
| **Temperature Range** | (-76°F to +274°F) (-60°C to +134°C) |
| **Flammability Rating** | UL94-5V |
| **Self Extinguishing** | Non-haloginated, non-flame propagating |
| **Chemical Resistance** | Full chemical resistance charts listed in appendix |
| **NFPA No. 101 Flame Spread** | Class A (1) |

### HW  *Accessories*

**Back Panels**

| | | |
|---|---|---|
| **Aluminum** | BP__AL | pg. 149 - 150 |
| **Fiberglass** | BP__FG | pg. 149 - 150 |
| **Stainless Steel** | BP__SS | pg. 149 - 150 |
| **Carbon Steel** | BP__CS | pg. 149 - 150 |

**Accessories**

| | |
|---|---|
| **Drain & Breather Vents** | pg. 144, 146 |
| **Hole Plugs** | pg. 145 |
| **Assorted Hubs and Cord Grips** | pg. 145, 148 |
| **All Other Accessories** | pg. 144 - 159 |

### HW  *Modifications*

| | |
|---|---|
| **Custom Colors** | pg. 12 - 13 |
| **Silk Screening** | pg. 12 - 13 |
| **EMI/RFI Shielding** | pg. 12 - 13 |
| **Custom Window** | pg. 12 - 13 |
| **Custom Cutouts/Holes** | pg. 12 - 13 |

*NOTES:*

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J Series

# Technical Specifications - J Series

*Opaque Cover "HLL" configuration - Hinged, twist latch*

## HLL  *Construction*

| | |
|---|---|
| **Material** | Hot compression molded fiberglass reinforced polyester (thermoset) |
| **Gasket** | Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal |
| **Pan head screws** | Minimized protruding surfaces |
| **Stainless Steel Hardware** | 300 Series stainless used on all external hardware |
| **Molded in Mounting Flange** | Molded in flange for ease of mounting. |
| **Mounting Bosses** | Panel mounting capability for fixed rear panel |
| **Metal inserts** | Back panel utilizes threaded brass inserts accepting 10-32 screws |
| **Soft Edge Design** | Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris |

## HLL  *Industry Standards*

| | |
|---|---|
| **UL/cUL 50** | File E64358  Type 1, 3R, 4X, 6P, 12 |
| **NEMA 250** | Type 1, 3R, 4X, 6P, 12 |
| **CSA Std C22.2** | File LR069014  Type 1, 3R, 4X, 6P, 12 |
| **Temperature Range** | (-76°F to +274°F) (-60°C to +134°C) |
| **Flammability Rating** | UL94-5V |
| **Self Extinguishing** | Non-haloginated, non-flame propagating |
| **Chemical Resistance** | Full chemical resistance charts listed in appendix |
| **NFPA No. 101 Flame Spread** | Class A (1) |

## HLL  *Accessories*

### Back Panels

| | | |
|---|---|---|
| **Aluminum** | BP__AL | pg. 149 - 150 |
| **Fiberglass** | BP__FG | pg. 149 - 150 |
| **Stainless Steel** | BP__SS | pg. 149 - 150 |
| **Carbon Steel** | BP__CS | pg. 149 - 150 |

### Accessories

| | |
|---|---|
| **Drain & Breather Vents** | pg. 144, 146 |
| **Hole Plugs** | pg. 145 |
| **Assorted Hubs and Cord Grips** | pg. 145, 148 |
| **All Other Accessories** | pg. 144 - 159 |

## HLL  *Modifications*

| | |
|---|---|
| **Custom Colors** | pg. 12 - 13 |
| **Silk Screening** | pg. 12 - 13 |
| **EMI/RFI Shielding** | pg. 12 - 13 |
| **Custom Window** | pg. 12 - 13 |
| **Custom Cutouts/Holes** | pg. 12 - 13 |

*NOTES:*

# Technical Specifications - J Series

*Opaque Cover "HPL" configuration - Hinged, padlock latch*

## **HPL** *Construction*

| | |
|---|---|
| **Material** | Hot compression molded fiberglass reinforced polyester (thermoset). Available standard in Glacier Grey or White |
| **Gasket** | Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal |
| **Pan head screws** | Minimized protruding surfaces |
| **Stainless Steel Hardware** | 300 Series stainless used on all external hardware |
| **Molded in Mounting Flange** | Molded in flange for ease of mounting. |
| **Mounting Bosses** | Panel mounting capability for fixed rear panel |
| **Metal inserts** | Back panel utilizes threaded brass inserts accepting 10-32 screws |
| **Soft Edge Design** | Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris |
| **Color** | Available Standard in Glacier Grey or White |

## **HPL** *Industry Standards*

| | |
|---|---|
| **UL/cUL 50** | File E64358  Type 1, 3R, 4X, 6P, 12 |
| **NEMA 250** | Type 1, 3R, 4X, 6P, 12 |
| **CSA Std C22.2** | File LR069014  Type 1, 3R, 4X, 6P, 12 |
| **Temperature Range** | (-76°F to +274°F) (-60°C to +134°C) |
| **Flammability Rating** | UL94-5V |
| **Self Extinguishing** | Non-haloginated, non-flame propagating |
| **Chemical Resistance** | Full chemical resistance charts listed in appendix |
| **NFPA No. 101 Flame Spread** | Class A (1) |

## **HPL** *Accessories*

### *Back Panels*

| | | |
|---|---|---|
| **Aluminum** | BP__AL | pg. 149 - 150 |
| **Fiberglass** | BP__FG | pg. 149 - 150 |
| **Stainless Steel** | BP__SS | pg. 149 - 150 |
| **Carbon Steel** | BP__CS | pg. 149 - 150 |

### *Accessories*

| | |
|---|---|
| **Drain & Breather Vents** | pg. 144, 146 |
| **Hole Plugs** | pg. 145 |
| **Assorted Hubs and Cord Grips** | pg. 145, 148 |
| **All Other Accessories** | pg. 144 - 159 |

## **HPL** *Modifications*

| | |
|---|---|
| **Custom Colors** | pg. 12 - 13 |
| **Silk Screening** | pg. 12 - 13 |
| **EMI/RFI Shielding** | pg. 12 - 13 |
| **Custom Window** | pg. 12 - 13 |
| **Custom Cutouts/Holes** | pg. 12 - 13 |

*NOTES:*

J

# Technical Specifications - J Series

*Opaque Cover "FHW" configuration - Fiberglass hinge, four cover screws*

**FHW** | *Construction*

| Material | Hot compression molded fiberglass reinforced polyester (thermoset) |
|---|---|
| Gasket | Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal |
| Pan head screws | Minimized protruding surfaces |
| Stainless Steel Hardware | 300 Series stainless used on all external hardware |
| Molded in Mounting Flange | Molded in flange for ease of mounting. |
| Mounting Bosses | Panel mounting capability for fixed rear panel |
| Metal inserts | Back panel utilizes threaded brass inserts accepting 10-32 screws |
| Soft Edge Design | Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris |
| Hinge Material | Glass filled Polybutylene Terephthalate (PBT) |

**FHW** | *Industry Standards*

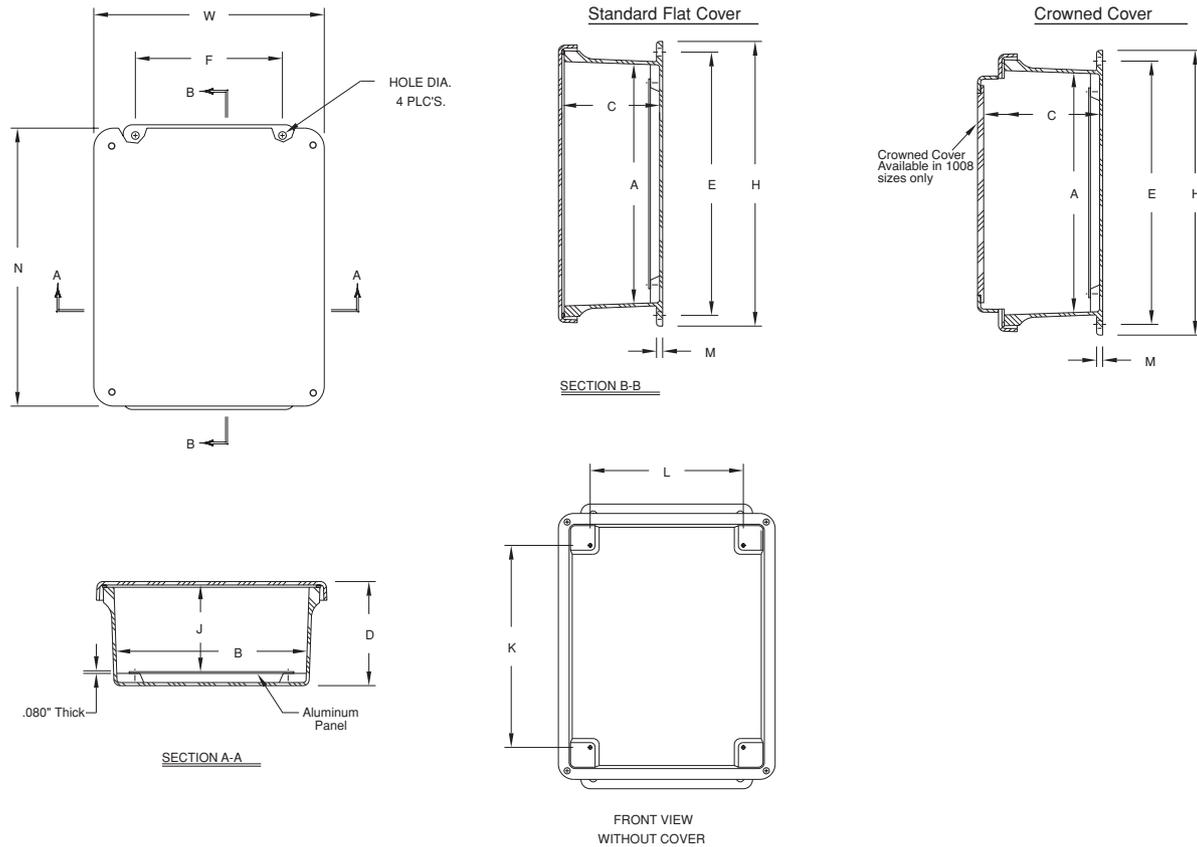| UL/cUL 50 | File E64358  Type 1, 3R, 4X, 6P, 12 |
|---|---|
| NEMA 250 | Type 1, 3R, 4X, 6P, 12 |
| CSA Std C22.2 | File LR069014  Type 1, 3R, 4X, 6P, 12 |
| Temperature Range | (-76°F to +274°F) (-60°C to +134°C) |
| Flammability Rating | UL94-5V |
| Self Extinguishing | Non-haloginated, non-flame propagating |
| Chemical Resistance | Full chemical resistance charts listed in appendix |
| NFPA No. 101 Flame Spread | Class A (1) |

**FHW** | *Accessories*

### Back Panels

| Aluminum | BP__AL | pg. 149 - 150 |
|---|---|---|
| Fiberglass | BP__FG | pg. 149 - 150 |
| Stainless Steel | BP__SS | pg. 149 - 150 |
| Carbon Steel | BP__CS | pg. 149 - 150 |

### Accessories

| Drain & Breather Vents | pg. 144, 146 |
|---|---|
| Hole Plugs | pg. 145 |
| Assorted Hubs and Cord Grips | pg. 145, 148 |
| All Other Accessories | pg. 144 - 159 |

**FHW** | *Modifications*

| Custom Colors | pg. 12 - 13 |
|---|---|
| Silk Screening | pg. 12 - 13 |
| EMI/RFI Shielding | pg. 12 - 13 |
| Custom Window | pg. 12 - 13 |
| Custom Cutouts/Holes | pg. 12 - 13 |

NOTES:

J Series

## Standard Flat Cover

## Crowned Cover

Crowned Cover Available in 1008 sizes only

SECTION B-B

SECTION A-A

.080" Thick

Aluminum Panel

FRONT VIEW WITHOUT COVER

HOLE DIA. 4 PLC'S.

### J Series Enclosures - Opaque Cover

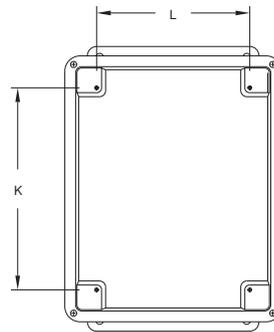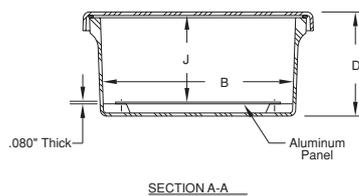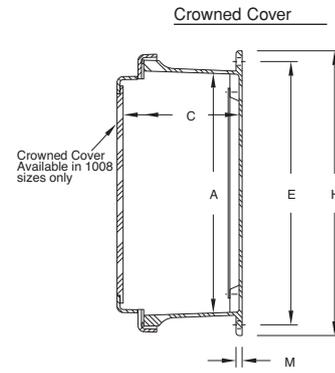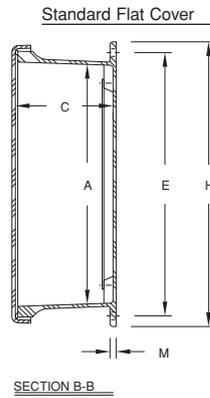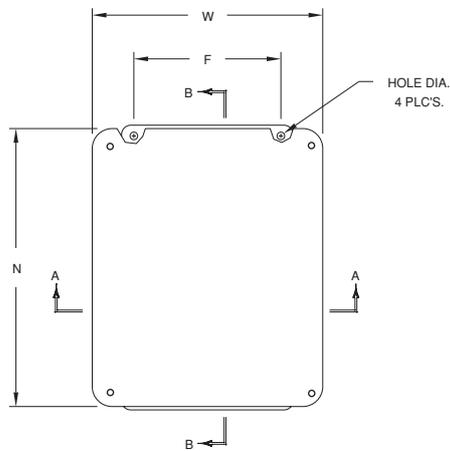| SIZE ID NUMBER | OVERALL H X W X D | INSIDE A X B X C | MOUNTING E X F | J | K | L | M | N | HOLE DIA. | SHIPPING WEIGHT | PANEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| J604W J604HW*** J604HLL J604HPL*** | 7.47 x 5.45 x 4.70 (190 x 138 x 119) | 5.84 x 3.85 x 4.45 (148 x 98 x 113) | 6.75 x 2.00 (171 x 51) | 3.97 (101) | 4.25 (108) | 2.25 (57) | 0.25 (6) | 7.39 (188) | 0.31 (8) | 2.40 lbs. | BP64** |
| J606W J606HW*** J606HLL J606HPL*** | 7.50 x 7.53 x 4.82 (191 x 191 x 122) | 5.72 x 5.72 x 4.45 (145 x 145 x 113) | 6.75 x 4.00 (171 x 101) | 3.97 (101) | 4.25 (108) | 4.25 (108) | 0.25 (6) | 7.53 (191) | 0.31 (8) | 2.80 lbs. | BP66** |
| J806W J806HW*** J806HLL J806HPL*** J806FHW | 9.63 x 7.52 x 4.70 (245 x 191 x 119) | 7.73 x 5.74 x 4.45 (196 x 146 x 113) | 8.88 x 4.00 (225 x 101) | 3.92 (100) | 6.25 (159) | 4.25 (108) | 0.25 (6) | 9.5 (242) | 0.31 (8) | 3.50 lbs. | BP86** |
| J808W J808HW*** J808HLL J808HPL*** J808FHW | 9.56 x 9.38 x 4.87 (243 x 238 x 124) | 7.73 x 7.73 x 4.62 (196 x 196 x 117) | 8.75 x 6.00 (222 x 152) | 3.98 (101) | 6.25 (159) | 6.25 (159) | 0.25 (6) | 9.38 (238) | 0.31 (8) | 3.80 lbs. | BP88** |

All measures are in inches, items in parentheses are in millimeters.

*Crowned cover – center of cover raised 3/4"

**Panel ordered separately

***Available in white by placing WH prior to part number ex. WH-J604HW

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J Series

Standard Flat Cover

SECTION B-B

Crowned Cover

Crowned Cover Available in 1008 sizes only

SECTION A-A

.080" Thick

Aluminum Panel

HOLE DIA. 4 PLC'S.

FRONT VIEW WITHOUT COVER

## J Series Enclosures - Opaque Cover

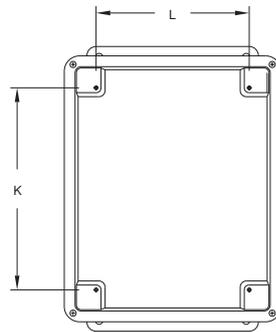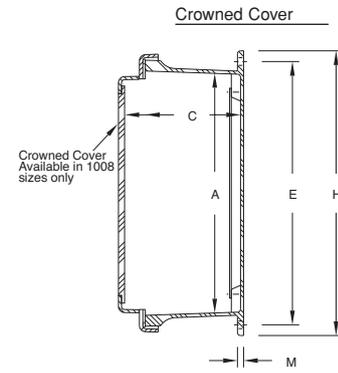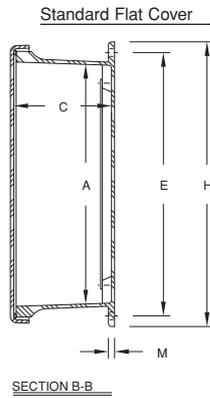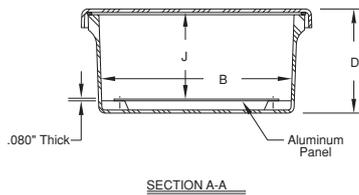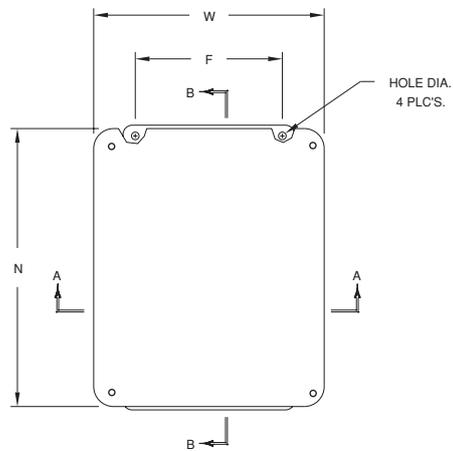| SIZE ID NUMBER | OVERALL H X W X D | INSIDE A X B X C | MOUNTING E X F | J | K | L | M | N | HOLE DIA. | SHIPPING WEIGHT | PANEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| J1008W J1008HW*** J1008HLL J1008HPL*** J1008FHW | 11.63 x 9.41 x 4.22 (295 x 239 x 107) | 9.73 x 7.73 x 3.98 (247 x 196 x 101) | 10.75 x 6.00 (273 x 152) | 3.44 (87) | 8.25 (210) | 6.25 (159) | 0.25 (6) | 11.35 (288) | 0.31 (8) | 4.60 lbs. | BP108** |
| J1008WA* J1008HWA* J1008HALL* J1008FHAPL* J1008FHWA* Crowned Cover | 11.63 x 9.37 x 5.08 (295 x 238 x 129) | 9.73 x 7.73 x 4.83 (247 x 196 x 123) | 10.75 x 6.00 (273 x 152) | 4.38 (111) | 8.25 (210) | 6.25 (159) | 0.25 (6) | 11.38 (289) | 0.31 (8) | 4.70 lbs. | BP108** |
| J100806W J100806HW*** J100806HLL J100806HPL*** J100806FHW | 11.97 x 9.42 x 6.50 (304 x 239 x 165) | 9.74 x 7.74 x 6.25 (248 x 197 x 159) | 10.94 - 10.75 x 6.00 (278 - 273 x 152) | 5.67 (141) | 8.25 (210) | 6.25 (159) | 0.25 (6) | 11.42 (290) | 0.31 (8) | 5.20 lbs. | BP108** |
| J1210W J1210HW*** J1210HLL J1210HPL*** J1210FHW | 13.56 x 11.43 x 5.22 (344 x 291 x 133) | 11.79 x 9.80 x 4.94 (299 x 249 x 125) | 12.75 x 8.00 (324 x 203) | 4.50 (114) | 10.25 (260) | 8.25 (210) | 0.25 (6) | 13.41 (341) | 0.31 (8) | 6.60 lbs. | BP1210** |
| J1212W J1212HW*** J1212HLL J1212HPL*** J1212FHW | 13.56 x 13.38 x 6.34 (344 x 340 x 161) | 11.70 x 11.70 x 6.10 (297 x 297 x 155) | 12.75 x 10.00 (324 x 254) | 5.51 (140) | 10.25 (260) | 10.25 (260) | 0.25 (6) | 13.38 (340) | 0.31 (8) | 8.40 lbs. | BP1212** |

All measures are in inches, items in parentheses are in millimeters.

*Crowned cover – center of cover raised 3/4"

** Panel ordered separately

***Available in white by placing WH prior to part number ex. WH-J604HW

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## J Series Technical Information



Standard Flat Cover

SECTION B-B

Crowned Cover

Crowned Cover Available in 1008 sizes only

.080" Thick

Aluminum Panel

SECTION A-A

HOLE DIA. 4 PLC'S.

FRONT VIEW WITHOUT COVER

### J Series Enclosures - Opaque Cover

| SIZE ID NUMBER | OVERALL H X W X D | INSIDE A X B X C | MOUNTING E X F | J | K | L | M | N | HOLE DIA. | SHIPPING WEIGHT | PANEL NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| J1407W J1407HW*** J1407HLL J1407HPL*** J1407FHW | 15.87 x 8.75 x 6.81 (403 x 222 x 173) | 14.00 x 7.00 x 6.56 (356 x 178 x 167) | 15.00 x 5.00 (381 x 127) | 6.11 (155) | 12.25 (311) | 5.25 (133) | 0.25 (6) | 15.75 (400) | 0.31 (8) | 6.10 lbs. | BP1407** |
| J1412W J1412HW*** J1412HLL J1412HPL*** J1412FHW | 15.50 x 13.48 x 6.20 (394 x 342 x 158) | 13.50 x 11.52 x 5.94 (343 x 293 x 151) | 14.62 x 10.00 (372 x 254) | 5.36 (137) | 12.25 (311) | 10.25 (260) | 0.25 (6) | 15.48 (393) | 0.31 (8) | 9.90 lbs. | BP1412** |
| J1614W J1614HW*** J1614HLL J1614HPL*** J1614FHW | 17.53 x 15.46 x 6.21 (445 x 393 x 157) | 15.60 x 13.56 x 5.94 (396 x 344 x 151) | 16.75 x 12.00 (425 x 305) | 5.35 (136) | 14.25 (362) | 12.25 (311) | 0.25 (6) | 17.46 (444) | 0.31 (8) | 12.20 lbs. | BP1614** |
| J1816W J1816HW*** J1816HLL J1816HPL*** J1816FHW | 19.63 x 17.61 x 8.81 (499 x 447 x 224) | 17.69 x 15.69 x 8.45 (449 x 399 x 215) | 18.88 x 12.00 (479 x 305) | 7.98 (203) | 16.25 (413) | 14.25 (362) | 0.25 (6) | 19.61 (498) | 0.31 (8) | 20.00 lbs. | BP1816** |
| J2016W J2016HW*** J2016HLL J2016HPL*** J2016FHW | 22.00 x 17.68 x 8.81 (559 x 449 x 224) | 19.72 x 15.72 x 8.45 (501 x 399 x 215) | 21.25 x 10.00 (540 x 254) | 7.98 (203) | 18.25 (464) | 14.25 (362) | 0.25 (6) | 21.68 (551) | 0.31 (8) | 22.50 lbs. | BPJ2016** |

All measures are in inches, items in parentheses are in millimeters.

*Crowned cover − center of cover raised 3/4"

** Panel ordered separately

***Available in white by placing WH prior to part number ex. WH-J604HW

J Series