CF & F Series

CF & F
Series

CF & F Series

The **CF and F Series** is built around three enclosure designs. All feature a slim style with flush side walls, while the F Series features an overhang cover style. Two are designed from fiberglass reinforced polyester the third from polycarbonate and feature a continuous polyurethane gasket that provides a complete environmental seal.

These enclosures are ideal for compact or portable control or simply as a small junction box. This streamlined series features unobstructed sidewalls, captive cover screws and a full range of sizes.

The F Series features a small overhang cover but also adds back panel mounting capabilities.

CF and F Series enclosures are designed for general electrical and electronic applications and any application that has associated environmental concerns.

Attributes

- → Memory retaining continuous polyurethane gasket
- → Captive stainless steel cover screws
- → Chemically resistant fiberglass reinforced polyester
- → Submersible, non-corrosion environmental design
- → High impact resistance
- → Polycarbonate option available on select sizes

CF & F Series

Industry Standards

NEMA 250, UL Listed UL50, UL50e, UL508A	File E64358 Type 1, 3R, 4X, 6P, 12
CSA Std C22.2	File LR069014 Type 1, 3R, 4X, 6P, 12
IEC 60529	UL File E362920 IP 66, IP67, IP68
UL1741	File E333478 (Fiberglass only)
Plenium Space (UL2043)	Yes (Fiberglass only)
Temperature Range (Fiberglass)	(-76°F to +274°F) (-60°C to +134°C)
Temperature Range (Polycarbonate)	(-40°F to +248°F) (-40°C to +120°C)
Flammability Rating	UL94-5V
Impact Rating	IK10 (Fiberglass only)
Self Extinguishing	Non-halogenated, non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix
NFPA No. 101 Flame Spread	Class A (1)
Outdoor UV Exposure (UL746C)	(f1) Rated

Product Configurations

CF SERIES	CF SERIES POLYCARBONATE	F SERIES
CF	CFPC	F
4 COVER SCREWS, LIFT OFF COVER	4 COVER SCREWS, LIFT OFF COVER	4 COVER SCREWS, LIFT OFF COVER

Product Specifications

CF Series

CF

CONFIGURATION
4 cover screws, lift off cover

CF Construction

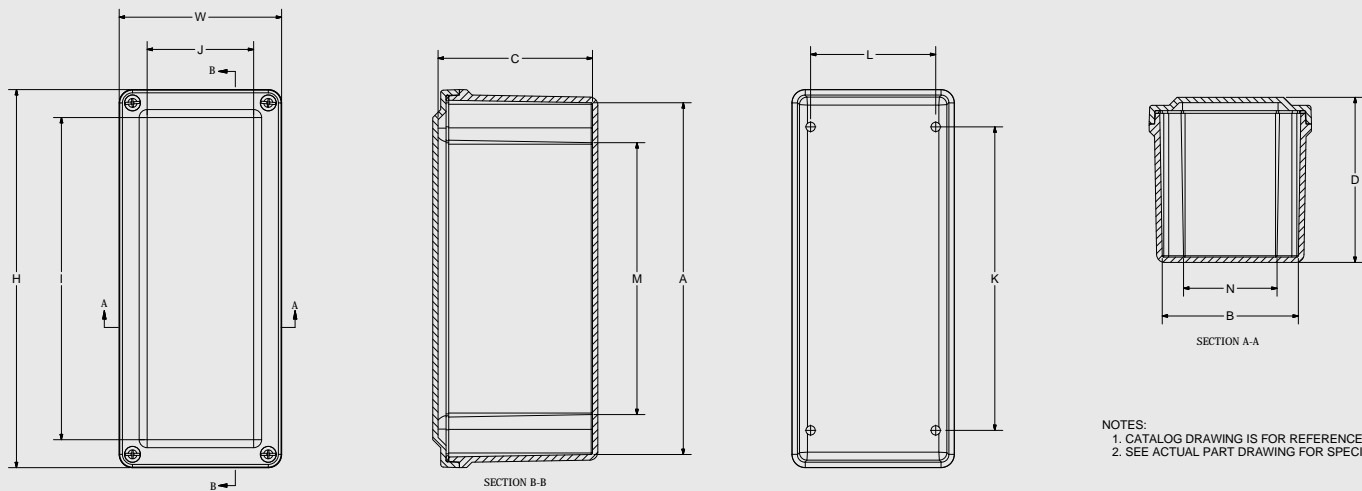|	
Material	SolarGuard® – Hot compression molded fiberglass reinforced polyester (thermoset)
Gasket	Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal
Cover Screws	Recessed captive stainless steel screws
Stainless Steel Hardware	300 Series stainless used on all external hardware
Enclosure Mounting	Mounting wells located under the cover/outside the gasket area
Soft Edge Design	Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris
Color	Available in standard glacier grey (Pantone 428C)

CF Modifications

Custom Colors	pg. 21-22
Silk Screening	pg. 21-22
EMI/RFI Shielding	pg. 21-22
Custom Window	pg. 21-22
Custom Cutouts/Holes	pg. 21-22

CF Industry Standards

NEMA 250, UL Listed UL50, UL50e, UL508A	File E64358 Type 1, 3R, 4X, 6P, 12
CSA Std 22.2	File LR069014 Type 1, 3R, 4X, 6P, 12
IEC 60529	UL File E362920 IP 66, IP67, IP68
UL1741	File E333478
Plenum Space (UL2043) Compliant	Yes
Temperature Range	(-76°F to +274°F) (-60°C to +134°C)
Flammability Rating	UL94-5V
Impact Rating	IK10
Self Extinguishing	Non-halogenated, non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix
NFPA No. 101 Flame Spread	Class A (1)
Outdoor Exposure (UL746C)	(f1) Rated

CF Accessories

BACK PANELS	**Aluminum**	BP_AL	pg. 174-175
	Fiberglass	BP_FG	pg. 174-175
	Stainless Steel	BP_SS	pg. 174-175
	Carbon Steel	BP_CS	pg. 174-175

SECTION B-B

SECTION A-A

NOTES:
1. CATALOG DRAWING IS FOR REFERENCE ONLY
2. SEE ACTUAL PART DRAWING FOR SPECIFIC DESIGN

SCREW SIZES & TORQUE VALUES

PRODUCT SIZES	BACK PANEL SCREW SIZE	BACK PANEL RECOMMENDED TORQUE	COVER SCREW SIZE	COVER SCREW RECOMMENDED TORQUE	RECOMMENDED MOUNTING FLANGE TORQUE
All Sizes – CF Series	N/A	N/A	#10-24 x 3/4	20 - 24 in-lbs	45 in-lbs max

CF Series

CATALOG NUMBER	OVERALL H X W X D	INSIDE A X B X C	I	J	K	L	M	N	SHIP WEIGHT
*CF332	3.72 x 3.63 x 2.95 (95 x 92 x 75)	3.13 x 3.03 x 2.70 (79 x 77 x 69)	0 (0)	0 (0)	2.31 (59)	2.75 (70)	1.59 (40)	2.03 (52)	0.9 lbs. (112)
CF532	5.97 x 3.63 x 3.14 (152 x 92 x 80)	5.38 x 3.03 x 2.87 (137 x 77 x 73)	4.72 (120)	2.38 (61)	4.56 (116)	2.75 (70)	3.84 (98)	2.03 (52)	1.2 lbs. (169)
CF644	6.63 x 3.81 x 3.89 (168 x 97 x 99)	6.00 x 3.19 x 3.63 (153 x 81 x 92)	5.31 (135)	2.50 (64)	4.88 (124)	2.94 (75)	4.13 (105)	2.19 (56)	1.5 lbs. (186)
CF832	8.41 x 3.63 x 3.14 (214 x 92 x 80)	7.82 x 3.03 x 2.87 (199 x 77 x 73)	7.16 (182)	2.38 (60)	7.00 (178)	2.75 (70)	6.28 (160)	2.03 (52)	1.5 lbs. (231)
CF844	8.88 x 3.81 x 3.89 (225 x 97 x 99)	8.26 x 3.19 x 3.63 (210 x 81 x 92)	7.56 (192)	2.50 (64)	7.13 (181)	2.94 (75)	6.38 (162)	2.19 (56)	1.8 lbs. (243)
CF932	9.35 x 3.63 x 3.14 (237 x 92 x 80)	8.75 x 3.03 x 2.87 (222 x 77 x 73)	8.10 (206)	2.38 (60)	7.94 (202)	2.75 (70)	7.22 (183)	2.03 (52)	1.6 lbs. (256)
CF1144	11.13 x 3.81 x 3.89 (283 x 97 x 99)	10.51 x 3.19 x 3.63 (267 x 81 x 92)	9.81 (249)	2.50 (64)	9.37 (238)	2.94 (75)	8.63 (219)	2.19 (56)	2.1 lbs. (300)
CF1432	13.78 x 3.63 x 3.14 (350 x 92 x 80)	13.19 x 3.03 x 2.87 (335 x 77 x 73)	12.53 (318)	2.38 (60)	12.37 (314)	2.75 (70)	11.66 (296)	2.03 (52)	2.1 lbs. (368)
CF1732	17.35 x 3.63 x 3.14 (441 x 92 x 80)	16.75 x 3.03 x 2.87 (426 x 77 x 73)	16.10 (409)	2.38 (60)	15.94 (405)	2.75 (70)	15.22 (387)	2.03 (52)	2.8 lbs. (458)

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

Flat Cover

Polycarbonate CF Series

CFPC **CONFIGURATION**
4 cover screws, lift off cover

CFPC Construction

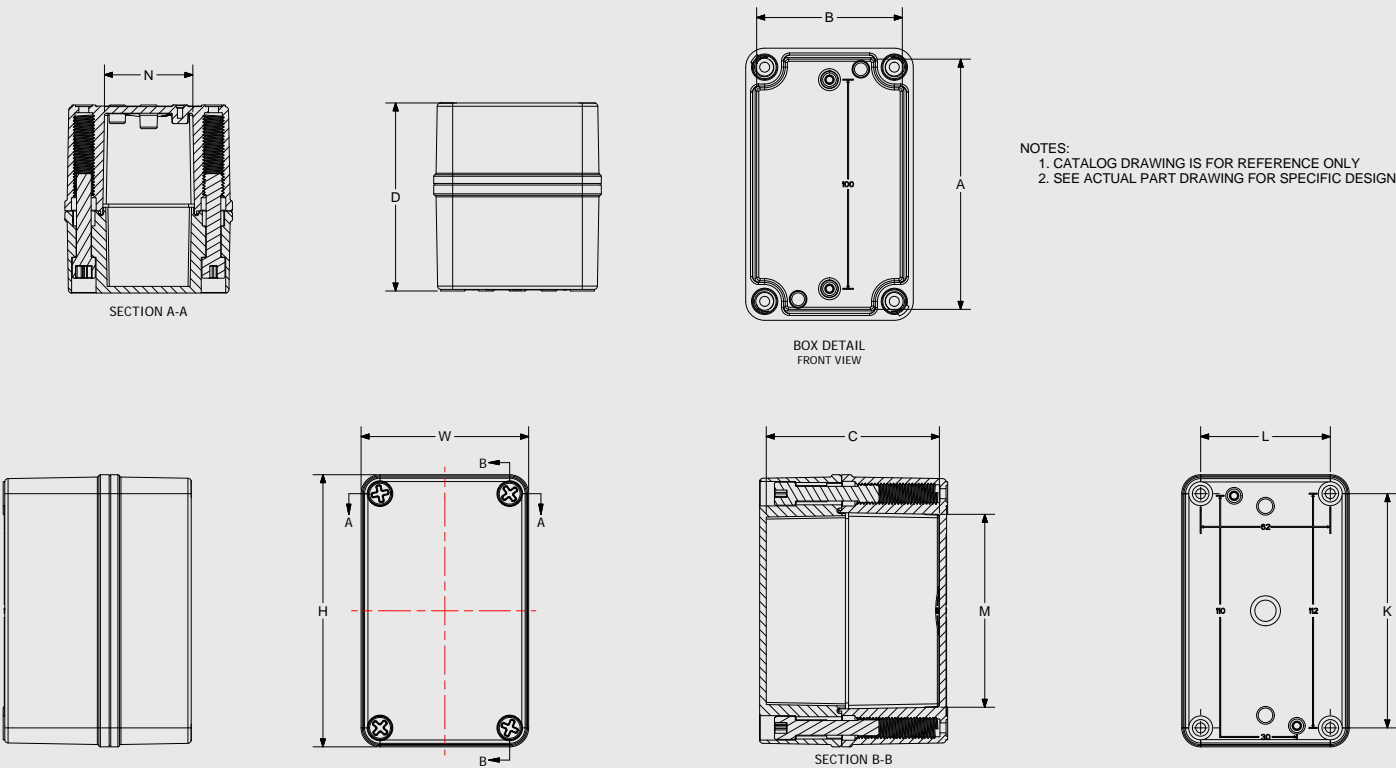|	
Material	Polycarbonate with UV inhibitors
Gasket	Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal
Cover Screws	Recessed captive stainless steel screws
Stainless Steel Hardware	300 Series stainless used on all external hardware
Enclosure Mounting	Mounting wells located under the cover/outside the gasket area
Soft Edge Design	Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris
Color	Available in standard RAL 7541C

CFPC Modifications

Custom Colors	pg. 21-22
Silk Screening	pg. 21-22
EMI/RFI Shielding	pg. 21-22
Custom Window	pg. 21-22
Custom Cutouts/Holes	pg. 21-22

CFPC Industry Standards

NEMA 250, cULus Listed UL50, UL50e, UL508A	File E64358 Type 1, 3R, 4X, 6P, 12
IEC 60529	UL File E362920 IP 66, IP67, IP68
UL1741	File E333478
Plenum Space (UL2043) Compliant	Yes
Temperature Range	(-40°F to +248°F) (-40°C to +120°C)
Flammability Rating	UL94-5V
Self Extinguishing	Non-halogenated, non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix
NFPA No. 101 Flame Spread	Class A (1)
Outdoor Exposure UL746C	(f1) Rated

CFPC Accessories

BACK PANELS	**Aluminum**	BP_AL	pg. 174-175
	Fiberglass	BP_FG	pg. 174-175
	Stainless Steel	BP_SS	pg. 174-175
	Carbon Steel	BP_CS	pg. 174-175

SECTION A-A

BOX DETAIL
FRONT VIEW

NOTES:
1. CATALOG DRAWING IS FOR REFERENCE ONLY
2. SEE ACTUAL PART DRAWING FOR SPECIFIC DESIGN

SECTION B-B

SCREW SIZES & TORQUE VALUES

PRODUCT SIZES	BACK PANEL SCREW SIZE	BACK PANEL RECOMMENDED TORQUE	COVER SCREW SIZE	COVER SCREW RECOMMENDED TORQUE	RECOMMENDED MOUNTING FLANGE TORQUE
All Sizes – CFPC Series	N/A	N/A	Custom Screw	16-20 in-lbs	25 - 30 in-lbs

CFPC Series

CATALOG NUMBER	HOLE CONFIG.	OVERALL H X W X D	INSIDE A X B X C	K	L	M	N	P	HOLE DIA.	SHIP WEIGHT
CFPC432	Blank	4.34 x 3.16 x 2.79 (110 x 80 x 71)	3.92 x 2.74 x 2.51 (100 x 70 x 64)	3.62 (92)	2.44 (62)	2.85 (72)	1.66 (42)	NA	NA	CF
CFPC533	Blank	5.12 x 3.16 x 3.54 (130 x 80 x 90)	7.71 x 2.74 x 3.26 (130 x 80 x 90)	4.41 (112)	2.44 (62)	3.63 (92)	1.66 (42)	NA	NA	CF

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

*Flat Cover

F Series

F CONFIGURATION
4 cover screws, lift off cover

F Construction

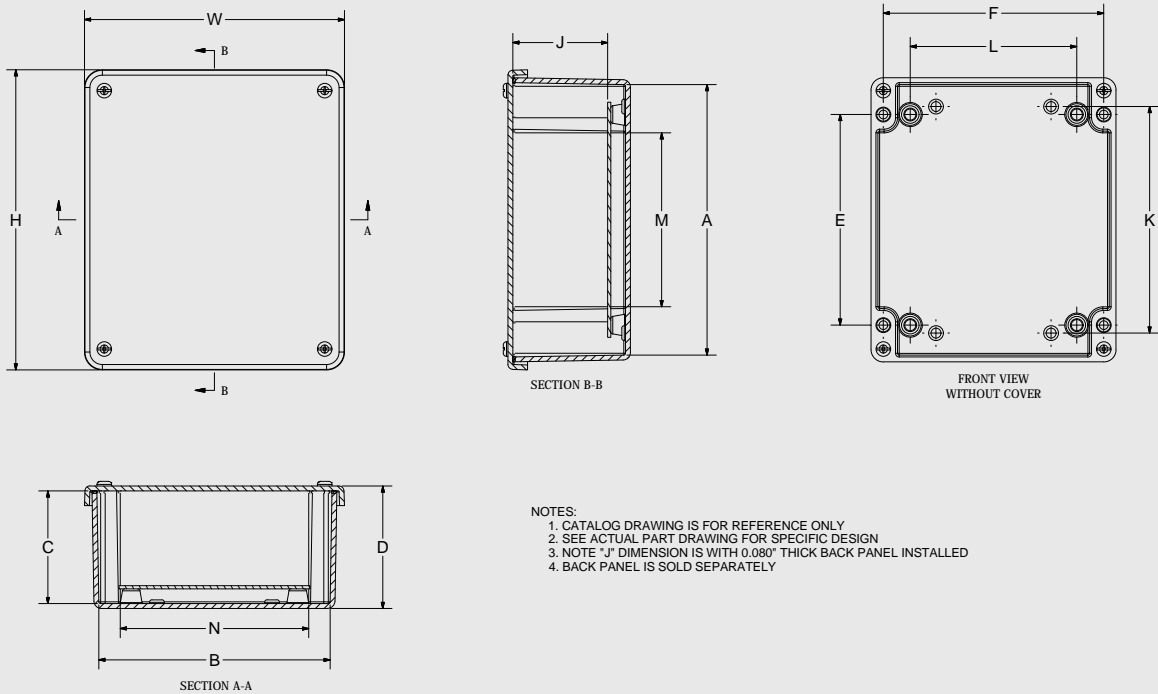|	
Material	SolarGuard® – Hot compression molded fiberglass reinforced polyester (thermoset)
Gasket	Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal
Cover screws	Captive stainless steel screws
Stainless Steel Hardware	300 Series stainless used on all external hardware
Enclosure Mounting	Mounting wells located under the cover/outside the gasket area.
Panel Mounting	Raised bosses with brass inserts accepting 10-32 screws for optional panel mounting
Soft Edge Design	Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris
Color	Available in standard glacier grey (Pantone 428C)

F Modifications

Custom Colors	pg. 21-22
Silk Screening	pg. 21-22
EMI/RFI Shielding	pg. 21-22
Custom Window	pg. 21-22
Custom Cutouts/Holes	pg. 21-22

F Industry Standards

NEMA 250, UL Listed UL50, UL50e, UL508A	File E64358 Type 1, 3R, 4X, 6P, 12
CSA Std 22.2	File LR069014 Type 1, 3R, 4X, 6P, 12
IEC 60529	UL File E362920 IP 66, IP67, IP68
UL1741	File E333478
Plenum Space (UL2043) Compliant	Yes
Temperature Range	(-76°F to +274°F) (-60°C to +134°C)
Flammability Rating	UL94-5V
Impact Rating	IK10
Self Extinguishing	Non-haloginated, non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix
NFPA No. 101 Flame Spread	Class A (1)
Outdoor Exposure UL746C	(f1) Rated

F Accessories

BACK PANELS	**Aluminum**	BP_AL	pg. 174-175
	Fiberglass	BP_FG	pg. 174-175
	Stainless Steel	BP_SS	pg. 174-175
	Carbon Steel	BP_CS	pg. 174-175

SECTION B-B

FRONT VIEW
WITHOUT COVER

SECTION A-A

NOTES:
1. CATALOG DRAWING IS FOR REFERENCE ONLY
2. SEE ACTUAL PART DRAWING FOR SPECIFIC DESIGN
3. NOTE "J" DIMENSION IS WITH 0.080" THICK BACK PANEL INSTALLED
4. BACK PANEL IS SOLD SEPARATELY

SCREW SIZES & TORQUE VALUES

PRODUCT SIZES	BACK PANEL SCREW SIZE	BACK PANEL RECOMMENDED TORQUE	COVER SCREW SIZE	COVER SCREW RECOMMENDED TORQUE	RECOMMENDED MOUNTING FLANGE TORQUE
All Sizes	N/A	N/A	#10-24 x 3/4	20 - 24 in-lbs	45 in-lbs max

F Series

CATALOG NUMBER	OVERALL H X W X D	INSIDE A X B X C	MOUNTING E X F	J	K	L	M	N	SHIP WEIGHT	PANEL NUMBER
F763	7.63 x 6.63 x 3.19 (194 x 168 x 81)	6.90 x 5.90 x 2.88 (175 x 150 x 73)	5.37 x 5.63 (137 x 143)	2.48 (63)	5.37 (137)	4.25 (108)	4.52 (115)	4.9 (124)	2.5 lbs.	BP76*
F963	9.87 x 6.63 x 3.19 (251 x 168 x 81)	9.15 x 5.90 x 2.88 (232 x 150 x 73)	7.62 x 5.63 (194 x 143)	2.48 (63)	7.62 (194)	4.25 (108)	6.77 (172)	4.9 (124)	2.6 lbs.	BP96*

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

*Panel sold separately