

The PolyStar Series

PC

PolyStar™ Enclosures are intended to be utilized for outdoor and indoor applications. The polycarbonate resin in the PolyStar™ Series received the best rating, an “F1” per UL 746C. This means that the resin has passed tests for UV exposure and water immersion. The PolyStar™ Series enclosures are rated 3R, 4, 4X, 12 per UL 50 and IP66 per IEC 60529. The material rating and the product rating can assure the user that the PolyStar™ Series enclosures are suitable for outdoor use and exposure.

PolyStar™ enclosures are manufactured with polycarbonate designed to perform in cold weather applications. In general, the product performance will not be adversely affected until temperatures below -40°F are realized. In our literature, we document a normal operating temperature of -20°F to +240°F (-20°C to +115°C). We do this to provide a safe operating range, as product application and enclosure placement are not always exactly known.

PolyStar Series Attributes

- Latches and hinges do not penetrate enclosure
- Easy to remove lid
- High performance inserts
- Integrated lock hasp
- Flush-fit side mount swing panel and DIN rail system
- Molded in bosses
- Multi-directional mounting feet
- Available in standard flat covers or domed covers as applicable on certain sizes

PolyStar Series Industry Standards

UL/cUL 50	File E342926 Type 3R, 4, 4X, 12
NEMA 250	Type 3R, 4, 4X, 12
IEC 60529	IP66
Temperature Range	(-20°F to +240°F) (-20°C to +115°C)
Flammability Rating	UL94-5VA/V0
Chemical Resistance	Full chemical resistance charts listed in appendix



PolyStar™

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Technical Specifications - PolyStar™ Series

PC

Opaque Cover configuration - Hinged, 2 latches



PC Construction

Material	Polycarbonate with UV inhibitors
Gasket	Neoprene rope style
Recessed Screws	No protruding surfaces
Stainless Steel Hardware	300 Series stainless used on all hardware
Mounting Bosses	Panel mounting capability for fixed rear panel
Metal inserts	All threaded brass inserts accepting 10-32 screws
Side Mount Solutions	Variable height, any side mount capability

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NOTES:

PC 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

Swing Panel Kits (comes with mounts, screws, and panel)

Swing Panel Kit	PC_SPK	pg. 113
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Accessories

Slot Nut Kit (includes two nuts & two screws)	PCSNK	pg. 113
Swing Panel Mounts (4 per kit)	PCSPMK	pg. 113
Latch Kit (2 latches per kit) - replacement only	PCLATCHKIT	pg. 113
Accessory Kit (includes all screws, inserts, and mounting feet) - replacement only	PCACCESSORYKIT	pg. 113

PC 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

Technical Specifications - PolyStar™ Series

Clear Cover configuration - Hinged, 2 latches



CC Construction

Material	Polycarbonate with UV inhibitors
Gasket	Neoprene rope style
Recessed Screws	No protruding surfaces
Stainless Steel Hardware	300 Series stainless used on all hardware
Mounting Bosses	Panel mounting capability for fixed rear panel
Metal inserts	All threaded brass inserts accepting 10-32 screws
Side Mount Solutions	Variable height, any side mount capability

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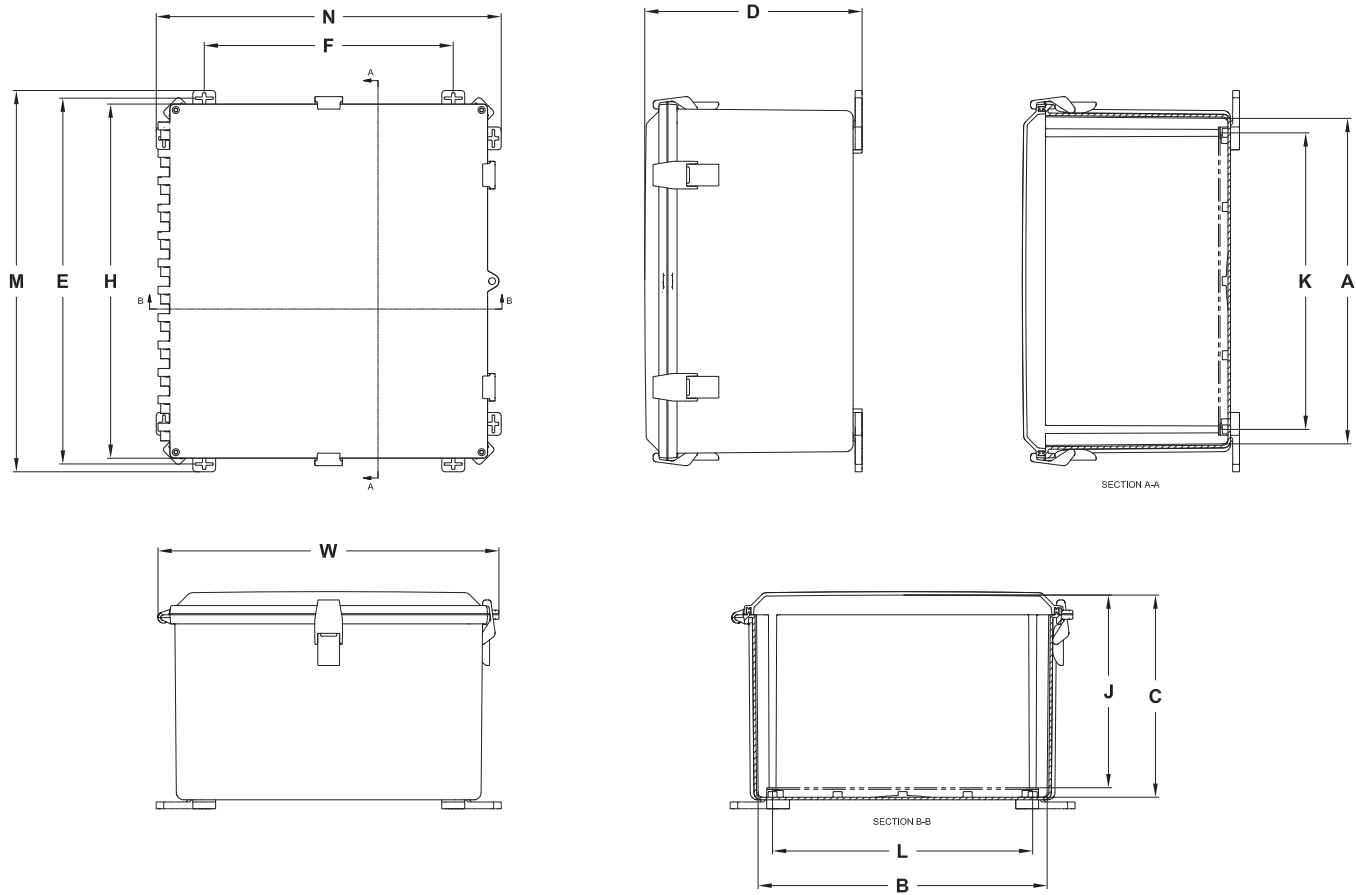
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PolyStar™ Series Opaque Cover and Clear Cover Configuration Technical Drawings



PolyStar Series Enclosures - Opaque Cover and Clear Cover Configuration Dimensions

SIZE ID NUMBER	OVERALL H X W X D	INSIDE A X B X C	MOUNTING HOR. E X F	MOUNTING VER. E X F	MOUNTING 45 E X F	J	K	L	M	N	SHIPPING WEIGHT	PANEL NUMBER
PC606 PC606CC	7.41 x 8.68 x 5.84 (188 x 223 x 148)	5.94 x 5.94 x 5.02 (151 x 151 x 127)	3.64 x 8.40 (93 x 213)	8.04 x 3.64 (204 x 93)	6.75 x 6.74 (171 x 171)	4.50 (114)	4.25 (108)	4.25 (108)	8.89 (226)	8.89 (226)	2.50 lbs.	BP66*
PC806** PC806CC**	9.41 x 8.68 x 5.86 (239 x 223 x 149)	7.97 x 5.97 x 5.07 (202 x 152 x 129)	5.64 x 8.04 (143 x 213)	10.04 x 3.64 (255 x 93)	8.76 x 6.75 (223 x 171)	4.56 (116)	6.25 (159)	4.25 (108)	10.89 (277)	8.89 (226)	3.19 lbs.	BP86*
PC1008** PC1008CC**	11.41 x 10.68 x 6.36 (290 x 271 x 161)	9.96 x 7.96 x 5.57 (253 x 202 x 142)	7.64 x 10.04 (194 x 255)	12.04 x 5.64 (306 x 143)	10.76 x 8.75 (273 x 222)	5.05 (128)	8.25 (210)	6.25 (159)	12.89 (327)	10.89 (277)	4.31 lbs.	BP108*
PC1210** PC1210CC**	13.40 x 12.68 x 7.86 (340 x 322 x 200)	11.95 x 9.95 x 7.07 (304 x 253 x 180)	9.64 x 12.04 (245 x 306)	14.04 x 7.64 (357 x 194)	12.76 x 10.75 (324 x 273)	6.56 (167)	10.25 (260)	8.25 (210)	14.89 (378)	12.89 (327)	6.19 lbs.	BP1210*
PC1412** PC1412CC**	15.40 x 14.68 x 7.86 (391 x 373 x 200)	13.95 x 11.95 x 7.07 (354 x 304 x 180)	11.64 x 14.04 (296 x 357)	16.04 x 9.64 (407 x 245)	14.76 x 12.75 (375 x 324)	6.56 (167)	12.25 (311)	10.25 (260)	16.89 (429)	14.89 (378)	7.99 lbs.	BP1412*
PC1614** PC1614CC**	17.65 x 16.68 x 9.98 (448 x 424 x 253)	15.93 x 13.93 x 9.20 (405 x 354 x 234)	13.64 x 16.04 (347 x 407)	18.04 x 11.64 (458 x 296)	16.76 x 14.75 (426 x 375)	8.68 (220)	14.25 (362)	12.25 (311)	18.89 (480)	16.89 (429)	10.00 lbs.	BP1614*
PC1816 PC1816CC	19.41 x 18.68 x 11.90 (493 x 474 x 302)	17.83 x 15.83 x 11.08 (453 x 402 x 281)	15.64 x 18.04 (397 x 458)	20.04 x 13.64 (509 x 347)	18.75 x 16.74 (476 x 425)	10.56 (268)	16.25 (413)	14.25 (362)	20.89 (531)	18.89 (480)	11.25 lbs.	BP1816*

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

* Panel sold separately

** Domed covers available upon request, consult factory for details

PolyStar™ Series Swing Panel Kits and Accessories



Swing Panel Kits		
CATALOG NUMBER	SIZE	DESCRIPTION
PC606SPK	6 x 6	PolySTAR Series 6x6 Swing Panel Kit (includes mounts, screws and panel)
PC806SPK	8 x 6	PolySTAR Series 8x6 Swing Panel Kit (includes mounts, screws and panel)
PC1008SPK	10 x 8	PolySTAR Series 10x8 Swing Panel Kit (includes mounts, screws and panel)
PC1210SPK	12 x 10	PolySTAR Series 12x10 Swing Panel Kit (includes mounts, screws and panel)
PC1412SPK	14 x 12	PolySTAR Series 14x12 Swing Panel Kit (includes mounts, screws and panel)
PC1614SPK	16 x 14	PolySTAR Series 16x14 Swing Panel Kit (includes mounts, screws and panel)
PC1816SPK	18 x 16	PolySTAR Series 18x16 Swing Panel Kit (includes mounts, screws and panel)



PCSNK

Accessories	
CATALOG NUMBER	DESCRIPTION
PCSNK	Slot Nut Kit (includes two nuts & two screws)
PCSPMK	Swing Panel Mounts (4 per kit)
PCLATCHKIT	Latch Kit (2 latches per kit) - replacement only
PCACCESSORYKIT	Accessory Kit (includes all screws, inserts and mounting feet) - replacement only



PCSPMK



PCLATCHKIT



PCACCESSORYKIT