

POLYSTARTM

Polycarbonate Enclosures

***The most durable and reliable
polycarbonate enclosures available!***

Dimensional Requirements 6"×6" to 24"×24"

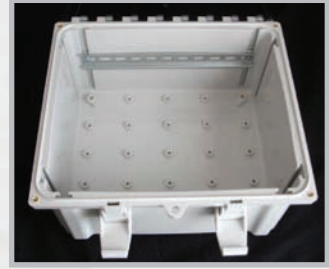
Made in the U.S.A., PolyStarTM polycarbonate enclosures can withstand rain, sleet, snow, splashing water, hose directed water and submersion --- and provide superior impact and flame protection!

- 8 standard sizes: 6×6, 8×6, 10×8, 12×10, 14×12, 16×14, 18×16, and 24×24
- 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
- Rated Type 3R, 4, 4X, 6P, 12
- Rated IEC IP66, IP67, IP68
- UL/cUL Approved



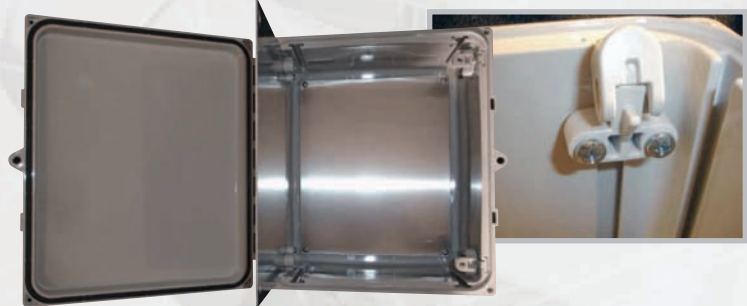
PolyStar™ – Side Mount Solutions

- Increases Usable Space
- Provides more Mounting Options
 - DIN rails
 - Side panels
 - Equipment
- Aluminum slot nuts
 - Variable mounting heights
 - #10-32 machine screw



PolyStar™ – Panel Systems

- Sub-panel Mounting Solution – Revolutionary design
 - Variable height mounting
 - Swings open from any side
 - Panel locks into open position
 - Mounting holes are standard JIC
- 0.08" Aluminum Panels
- Back Panels are standard JIC



UL 94 - Flame Rating - 5VA

PolyStar™ Enclosures provide the highest (most flame retardant) UL 94 rating available.



Outstanding Resistance to Environmental Exposure from -20°F to +240°F

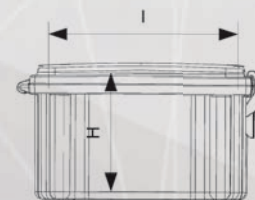
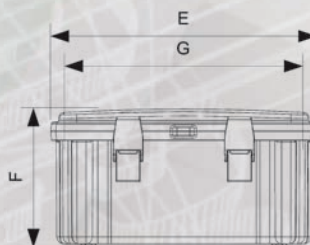
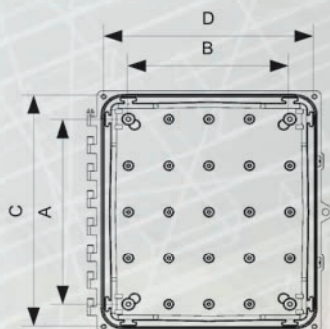
PolyStar™ Enclosures are intended to be utilized for outdoor and indoor applications. The polycarbonate contained in the PolyStar™ Series as well as the enclosure have passed UL tests for suitability. The polycarbonate resin in the PolyStar™ Series received the best rating, an "F1" per UL 746C. This means that the resin has passed tests for UV exposure and water immersion. The PolyStar™ Series enclosures are rated 3R, 4, 4X, 6P, 12 per UL 50 and IP66. IP67, IP68 per IEC 60529. This means that the enclosure provides protection against ingress (of rain, sleet, snow, splashing water, and hose directed water and submersion), impact, and flame protection. The material rating and the product rating can assure the user that the PolyStar™ Series enclosures are suitable for outdoor use and exposure.

Low Temperature Performance

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. At temperatures below this level, stress, tension, and pressure could start to impact the enclosure's reliability. This includes the latching, opening and/or incidental impacts. In the absence of these potential threats, the enclosures should remain unaffected by the low temperatures. Upon return of temperatures above -40°F, performance reliability should return to normal.

In the PolyStar™ 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 is determined by the end user, not by Stahlin. End-use testing of specific applications and enclosure placements are key to determining the application specific limits.

Part #	Size	Description
OPAQUE COVER ENCLOSURE		
PC606	6 × 6 × 4	PolyStar™ Series Enclosure with Opaque Cover
PC806	8 × 6 × 4	PolyStar™ Series Enclosure with Opaque Cover
PC1008	10 × 8 × 4	PolyStar™ Series Enclosure with Opaque Cover
PC1210	12 × 10 × 6	PolyStar™ Series Enclosure with Opaque Cover
PC1412	14 × 12 × 6	PolyStar™ Series Enclosure with Opaque Cover
PC1614	16 × 14 × 8	PolyStar™ Series Enclosure with Opaque Cover
PC1816	18 × 16 × 10	PolyStar™ Series Enclosure with Opaque Cover
PC2424	24 × 24 × 10	PolyStar™ Series Enclosure with Opaque Cover
CLEAR COVER ENCLOSURE		
PC606CC	6 × 6 × 4	PolyStar™ Series Enclosure with Clear Cover
PC806CC	8 × 6 × 4	PolyStar™ Series Enclosure with Clear Cover
PC1008CC	10 × 8 × 4	PolyStar™ Series Enclosure with Clear Cover
PC1210CC	12 × 10 × 6	PolyStar™ Series Enclosure with Clear Cover
PC1412CC	14 × 12 × 6	PolyStar™ Series Enclosure with Clear Cover
PC1614CC	16 × 14 × 8	PolyStar™ Series Enclosure with Clear Cover
PC1816CC	18 × 16 × 10	PolyStar™ Series Enclosure with Clear Cover
PC2424CC	24 × 24 × 10	PolyStar™ Series Enclosure with Clear Cover
BACK PANELS		
BP66AL	6 × 6	Aluminum Back Panel
BP86AL	8 × 6	Aluminum Back Panel
BP108AL	10 × 8	Aluminum Back Panel
BP1210AL	12 × 10	Aluminum Back Panel
BP1412AL	14 × 12	Aluminum Back Panel
BP1614AL	16 × 14	Aluminum Back Panel
BP1816AL	18 × 16	Aluminum Back Panel
BP2424PCAL	24 × 24	Aluminum Back Panel
SWING PANEL KITS		
PC606SPK	6 × 6	PolyStar™ Series 6×6 Swing Panel Kit (comes with mounts, screws and panel)
PC806SPK	8 × 6	PolyStar™ Series 8×6 Swing Panel Kit (comes with mounts, screws and panel)
PC1008SPK	10 × 8	PolyStar™ Series 10×8 Swing Panel Kit (comes with mounts, screws and panel)
PC1210SPK	12 × 10	PolyStar™ Series 12×10 Swing Panel Kit (comes with mounts, screws and panel)
PC1412SPK	14 × 12	PolyStar™ Series 14×12 Swing Panel Kit (comes with mounts, screws and panel)
PC1614SPK	16 × 14	PolyStar™ Series 16×14 Swing Panel Kit (comes with mounts, screws and panel)
PC1816SPK	18 × 16	PolyStar™ Series 18×16 Swing Panel Kit (comes with mounts, screws and panel)
PC2424SPK	24 × 24	PolyStar™ Series 24×24 Swing Panel Kit (comes with mounts, screws and panel)
ACCESSORIES		
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



Dimensions (inches)

Enclosure	A x B	C	D	E	F	G	H	I	Back Panel	Sub-Panel
6 × 6 × 4	4.25 × 4.25	6.75	6.75	5.7	5.7	6.3	5	6.3	4.88 × 4.88	5.625 × 5.625
8 × 6 × 4	6.25 × 4.25	8.75	6.75	9.4	5.7	8.3	5	6.3	6.88 × 4.88	7.625 × 5.625
10 × 8 × 4	8.25 × 6.25	10.75	8.75	11.4	6.2	10.3	5.5	8.3	8.88 × 6.88	9.625 × 7.625
12 × 10 × 6	10.25 × 8.25	12.75	10.75	13.4	7.7	12.3	7	10.3	10.88 × 8.88	11.625 × 9.625
14 × 12 × 6	12.25 × 10.25	14.75	12.75	15.4	7.7	14.3	7	12.3	12.88 × 10.88	13.625 × 11.625
16 × 14 × 8	14.25 × 12.25	16.75	14.75	17.4	9.7	16.3	9	14.3	14.88 × 12.88	15.625 × 13.625
18 × 16 × 10	16.25 × 14.25	18.75	16.75	19.4	11.7	18.3	11	16.3	16.88 × 14.88	17.625 × 13.625
24 × 24 × 10	22.25 × 22.25	24.75	24.75	25.4	11.7	24.3	11	24.3	22.75 × 22.75	23.625 × 23.625

Engineering Properties

Typical Properties	Typical Values	Unit	Standard
Flammability (resin/component)	V-0 / 5V-A		UL 94
UV-light	F1		UL 746C
Enclosure Types	3R, 4, 4X, 6P, 12 / IP66, IP67, IP68		UL 50 / IEC 60529
Falling Dirt Impact (D 3029), 73°F	124	ft-lb	ASTM D 3029
Izod Impact, unnotched, 73°F	60	ft-lb/in	ASTM D 4812
Tensile Impact, Type "S"	250	ft-lb/in ²	ASTM D 1822
HDT, 264 psi, 0.250", unannealed	270	°F	ASTM D 648
CTE, flow, -40°F to 200°F	3.8E-05	1/°F	ASTM E 831
Flexural Stress, yld, 0.05 in/min, 2 in span	13100	psi	ASTM D 790
Normal Temperature Range	-20 to +240 (-20 to +115)	°F (°C)	
Volume Resistivity	>1.E+17	Ohm-cm	ASTM D 257



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