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1305 Chester Industrial Parkway
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IP66 & IP68 Test Certificate: Polycase HN-Series

Independent Test Lab Performing Tests: Underwriters Laboratories

Test specification(s): IEC 60529 IP6X Powerful water jet
IEC 60529 IPX6 Dust tight with pressure
IEC 60529 IPX8 Continuous immersion. 6 foot depth for 24 hours
Degrees of Protection Provided by Enclosures

Part number(s) tested: HN-68 enclosure utilizing 4 fastening points
HN-88 enclosure utilizing 6 fastening points

Test completion date: December 19, 2025

This test certificate is based on testing completed on Polycase p/n: HN-68 enclosure & HN-88 enclosure by an independent test lab.

Since the enclosures tested are the largest / worst case configuration HN-Series enclosure design with 4 fastening points and with 6 fastening points, it is considered that the test results apply to other HN Series enclosures of a smaller size utilizing similar design constraints.

Testing was completed on one stock enclosure of each size without any modifications. Adding cutouts to the enclosure will void the ratings.

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TO: Brad Bengeler, ECP Corp, DBA Polycase
FROM: Kijung Lee, UL Solutions
PROJECT: Project# 4791981407.2
APPLICANT: ECP Corp, DBA Polycase
1305 Chester Industrial Pkwy
Avon, OH
SUBJECT: Letter Report, IP66, IP68 (IEC 60529) Testing for HN series
polymeric enclosures

Dear Brad,

We have completed our work under the above project and this letter will serve as a letter report of our technical evaluation regarding this project.

For the record we are using requirements from the following standards:

- IEC 60529 DEGREES OF PROTECTION REQUIRED BY ENCLOSURE- Edition 2.2, 2013/08

MODEL IDENTIFICATION AND DESCRIPTION:

- Polymeric enclosure, model HN-68 series, utilizing 4 fastening screws, dimensions 7.75 in. (196.9 mm) X 5.75 in. (146 mm) X 2.625 in. (66.7 mm) excluding mounting flanges
- Polymeric enclosure, model HN-88 series, utilizing 6 fastening screws, dimensions 11 in. (279.4 mm) X 7.75 in. (196.9 mm) X 3 in. (76.2 mm) excluding mounting flanges

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Testing Summary:

TESTING SUMMARY:

IP66, IP68 Code (IEC 60529)

TEST NO.	MODEL TESTED	TEST NAME	TEST REFERENCE	RESULTS
1	• Polymeric enclosure, model HN-68 series	DUST TEST FOR IP CODE IP6X	IEC 60529, Section 13.4	Dust did not enter enclosure - Compliant
2		WATER SPRAY TEST FOR IP CODE IPX6	IEC 60529, Section 14.2.6	Water did not enter enclosure - Compliant
3		CONTINUOUS IMMERSION TEST FOR IP CODE IPX8	IEC 60529, Section 14.2.8	Water did not enter enclosure - Compliant

NOTE:

1. Associated datasheets are attached - See Datasheet package for additional details.
2. The Continuous Immersion Test for IP Code IPX8 was performed using the Pressure Test method specified in UL 50E, 3rd edition (revised 10/17/2025), with the highest point of the enclosure positioned 1.8 meters (6 feet) below the water surface for 24 hours, while ensuring full compliance with all IPX8 test parameters.
3. UL did not select the samples, determine whether the samples were representative of production samples, or witness the production of the test samples, nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual sample tested.

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CONCLUSION:

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This concludes our work under Project - 4791981407.2.

Any information and documentation involving UL Mark services are provided on behalf of UL Solutions or any authorized licensee of UL.

Feel free to contact us if you have any questions.

Sincerely,

Reviewed By:

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