callrun IP Rating Explained

A practical guide to IP67 and IP68 ratings for rugged protective cases

1. What IP Means

IP stands for Ingress Protection. The first digit rates solid particle protection and the second digit rates water protection.

A rating of 6 means dust tight. A rating of 7 means protection against temporary immersion to one meter for thirty minutes.

A rating of 8 means protection against continuous immersion deeper than one meter as specified by the manufacturer.

2. What the Rating Does Not Cover

IP ratings do not apply to saltwater, soapy water, or water at temperatures above 40 C.

IP ratings do not cover damage from liquid while port covers are open.

IP ratings do not cover damage caused by operating the device while submerged.

3. How We Test

Each production batch is sampled and tested in an independent lab.

Dust test. The case is subjected to talc powder in a dust chamber for eight hours.

Water test. The case is submerged in fresh water at two meters depth for thirty minutes.

After each test the case is inspected for ingress and function.

4. Using the Rating Correctly

Always close the port covers and confirm the latch engaged before any water exposure.

After water exposure, dry the outside of the case before opening the port covers.

Treat the rating as a guide for expected conditions, not as a guarantee against all water damage.