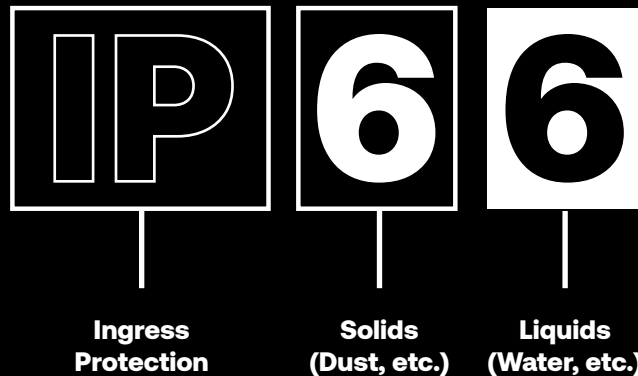


Ingress Protection (IP) Ratings Information Guide

What is an IP Rating?

An IP (Ingress Protection) rating is an internationally recognized scale that relates to proven protection against environmental factors such as liquids and solids.

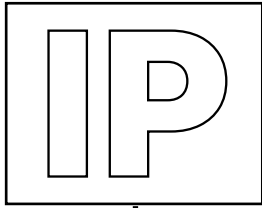


IPX6 First Digit - Solids

The first digit of the IP rating indicates the level of protection against the ingress from **solid foreign bodies such as dust, tools or fingers.**

IP6X Second Digit - Liquids

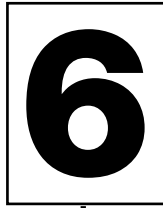
The second digit of the IP rating indicates the level of protection against various forms of **moisture (sprays, drips or submersion etc).**



Ingress Protection



Solids (Dust, etc.)



Liquids (Water, etc.)

X means there is no data available to specify a protection rating with regard to these criteria.

X

No protection.

0

Protection against vertically dripping water. Tested for 10 minutes.

1

Protected against dripping water when tilted 15°. Tested for 10 minutes. Water equivalent to 3 mm (0.12 in) rainfall per minute.

2

Protected from spraying water at any angle up to 60° from the vertical.

3

Protected against splashing water from any direction.

4

Protected from water projected by a nozzle (6.3 mm (0.25 in) against enclosure from any direction.

5

Protected from water projected in powerful jets (12.5 mm (0.49 in) against the enclosure from any direction.

6

Protected from water projected in powerful jets (6.3 mm (0.25 in) nozzle) against the enclosure from any direction, under elevated pressure.

6K

Protected against the effects of temporary immersion in water under defined conditions of pressure and time (up to 1 meter (3 ft 3 in) of submersion).

7

Protected against the effects of continuous immersion in water under conditions that shall be specified by the manufacturer.

8

Protected against close-range high pressure, high-temperature spray downs.

9K

X	X means there is no data available to specify a protection rating with regard to this criterion.	Protected from spraying water at any angle up to 60° from the vertical.	3
0	No protection.	Protected against splashing water from any direction.	4
1	Protected against solid foreign objects greater than 50 mm / 2.0 in.	Protected from water projected by a nozzle (6.3 mm (0.25 in) against enclosure from any direction.	5
2	Protected against solid foreign objects greater than 12.5 mm / 0.49 in.	Protected from water projected in powerful jets (12.5 mm (0.49 in) against the enclosure from any direction.	6
3	Protected against solid foreign objects greater than 2.5 mm / 0.098 in.	Protected from water projected in powerful jets (6.3 mm (0.25 in) nozzle) against the enclosure from any direction, under elevated pressure.	6K
4	Protected against solid foreign objects greater than 1.0 mm / 0.039 in.	Protected against the effects of temporary immersion in water under defined conditions of pressure and time (up to 1 meter (3 ft 3 in) of submersion).	7
5	Dust protected.	Protected against the effects of continuous immersion in water under conditions that shall be specified by the manufacturer.	8
6	Dust-tight.	Protected against close-range high pressure, high-temperature spray downs.	9K