

IP RATING

IP rating (International Standard IEC 60529-1:2003) is the international standard which defines the degree of protection against intrusion, dust and water provided by mechanical casings and electrical enclosures. All Survivor Lighting products are manufactured and tested to IP66. An IP rating is made up of two digits, the following tables explains their meaning.

First Digit

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts (eg: electrical conductors, moving parts) and the ingress of solid foreign objects.

Level	Object size protected against	Effective against
0	–	No protection against contact and ingress of objects
1	> 50 mm	Any large surface of the body (back of hand) but no protection for deliberate contact with a body part
2	> 12.5 mm	Fingers or similar objects
3	> 2.5 mm	Tools, thick wires, etc
4	> 1 mm	Most wires, screws, etc
5	dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6	dust tight	No ingress of dust; complete protection against contact

Second Digit

Protection of the equipment inside the enclosure against harmful ingress of water.

Level	Object size protected against	Effective against
0	not protected	No protection
1	dripping water	Dripping water (vertically falling drops) shall have no harmful effect
2	dripping water when tilted up to 15°	Vertically dripping water is not harmful when enclosure is tilted up to a 15° angle from its normal position
3	spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect
4	splashing water	Water splashing against the enclosure from any direction shall have no harmful effect
5	water jets	Water projected by a nozzle against enclosure from any direction shall have no harmful effects
6	powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects
7	immersion up to 1m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion)
8	immersion beyond 1m	Equipment suitable for continuous immersion in water under conditions specified by the manufacturer