

## IP Rating

The IP(International Protection Code or Ingress Protection) rating system is a worldwide recognized standard for rating enclosures' immunity to dust (solids) and water (moisture) penetration.

The rating is denoted by the following nomenclature:

**IP-xy:** where “x” and “y” are each substituted by single digits, denoting a degree of protection from foreign body and water respectively.

Following is the numerical legend that indicates the degree of protection:

First Digit(x)	Description of degree of protection from contact or foreign body
0	No Special Protection, Generally not used for pressure or temperature instruments
1	Protection against solid objects > 50mm in diameter. Generally not used for pressure or temperature instruments
2	Protection against solid objects > 12.5mm in diameter. Generally not used for pressure or temperature instruments
3	Protection against solid objects > 2.5mm in diameter
4	Protected against solid objects > 1.0mm in diameter
5	Dust Protected (Ingress of dust not completely prevented)
6 ★	<b><i>Dust-Tight(No ingress of dust, complete protection against contact)</i></b>

Second Digit(y)	Description of Degree of water protection
0	No Special Protection, Generally not used for pressure or temperature instruments
1	Protected against dripping water
2	Protected against dripping water when case is tilted up to 15°
3	Protected against spraying water
4	Protected against splashing water
5	Protected against a water jet
6	Protected against heavy jet spray
7	Protected against limited submersion in water(up to 1m of submersion)
8 ★	<b><i>Protected against continuous submersion in water (beyond 1 m of submersion)</i></b>

Aimtec's entire line of second generation AC/DC LED drivers are in IP68 rated enclosures. They are designed for LED based applications and are suitable for either outdoor or indoor use. With the dust-tight feature and capability to withstand continuous submersion in water, AIMTEC's LED drivers operation under harsh conditions. OTE: IP-68 is equivalent to NEMA 6P rating (US National Electrical Manufacturers Association).

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