



## Press release

### IP68 Products from ebm-papst

Ingress Protection (IP) is a standard protection rating on electrical enclosures that are considered waterproof or dust proof. The importance of an IP68 rating on ebm-papst products is to ensure the highest level of protection of the electronics inside the enclosure against foreign objects and water, while also protecting the user against potentially harmful contact.



Figure 1: IP 68-protected DC axial fans by ebm-papst

#### Ingress Protection at a glance

Ingress protection is the level of protection against the intrusion of solid objects, liquids, dust, and accidental contact with electrical enclosures inside a mechanical casing. This rating gives users a more detailed understanding of general terms such as waterproof or water-resistant.

The numerical digits represent conformity with the conditions outlined in the table below. For example, an electrical enclosure rated IP68 is completely protected against dust and cannot be damaged or become unsafe during permanent immersion in water.

#### Applications and target markets

Environmentally protected cooling solutions are highly beneficial to applications within the Alternative Energy, Appliance, Commercial Refrigeration, Heating, IT/Telecom, LED/Lighting and Mobile markets.

#### IP Protection Defined

- IP: Ingress Protection
- First Digit: Protection from solid objects
- Second Digit: Protection from liquids

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### IP (Ingress Protection) Rating - Code Definition

Rating	Solid Protection (first digit)	Rating	Liquid Protection (second digit)
X	No protection	X	No protection
1	Protection against objects > 50mm (hands)	1	Protection against dripping water or condensation
2	Protection against objects > 12mm (fingers)	2	Protection against water spray 15° from vertical
3	Protection against objects > 2.5mm (tools/wires)	3	Protection against water spray 60° from vertical
4	Protection against objects > 1mm (small tools)	4	Protection against water spray from all directions.
5	Protection against dust, limited ingress	5	Protection against low pressure jets of water
6	Complete protection against dust	6	Protection against high pressure water jets and heavy seas
		7	Protection against the effects of immersion (6in- 3.3ft)
		8	Protection against permanent immersion

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### About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors and is a pioneer and pacesetter for ultra-efficient EC technology. ebm-papst fans and motors are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications, in medical technology and in applications in automotive and commercial vehicles engineering. ebm-papst EC motor technology, and the market leader's engineering and logistics expertise will add value to your business.

Find out more about ebm-papst A&NZ on [www.ebmpapst.com.au](http://www.ebmpapst.com.au).