

# IP (Ingress Protection) Ratings Guide

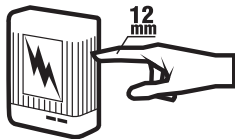
## SOLIDS

1



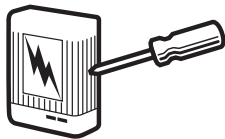
Protected against a solid object greater than 50 mm such as a hand.

2



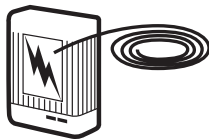
Protected against a solid object greater than 12.5 mm such as a finger.

3



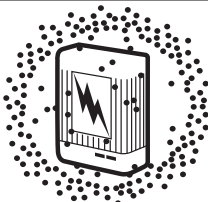
Protected against a solid object greater than 2.5 mm such as a screwdriver.

4



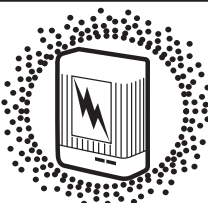
Protected against a solid object greater than 1 mm such as a wire.

5



Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours.

6



Dust tight. No Ingress of dust. Two to eight hours.

Rating Example:

**IP65**

INGRESS PROTECTION

## WATER

1



Protected against vertically falling drops of water. Limited ingress permitted.

2



Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted.

3



Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.

4



Protected against water splashed from all directions. Limited ingress permitted.

5



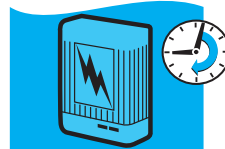
Protected against jets of water. Limited ingress permitted.

6



Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.

7



Protection against the effects of immersion in water between 15 cm and 1 m for 30 minutes.

8



Protection against the effects of immersion in water under pressure for long periods.

Chart sourced from: Blue Sea Systems