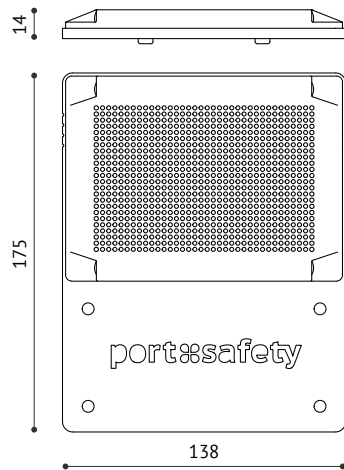




# marinaLightUnit

by port:safety



## Mechanical Data

### General

Weight	1,2 kg
Dimensions	175 x 138 x 14 mm

### Materials

Casing	Clear Polycarbonate
Base Plate	5 mm A4 316 Stainless Steel

### Ingress Protection and Mechanical Impact Resistance

IP Class	IP68
IK Class	IK10 (undergoing verification)

## Technical Data

### Solar Panel

Cell Type	Monocrystalline
Max Output Voltage	-
Peak Power	-

### Battery

Type	LiFePO4
Capacity	1000mAh
Nominal Voltage	3,2 V

### Primary LEDs

Type	Dip LED
Color Temperature	7000-9000 K
CRI	> = 80

### Secondary LED

Type	CREE SMD 3528
Color Temperature	2500-4700 K
CRI	> = 80

## Safety at night

The marinaLightUnit illuminates a rescue ladder at night, enhancing waterfront safety. In dark surroundings the marinaLightUnit's LEDs illuminate the rungs and side rails of the below ladder, making it recognizable to a person in distress in the water: A clear way to safety.

## Functionality

When exposed to sunlight the solar panel charges the built in battery. In dark surroundings the Primary and Secondary LEDs turn on. Two Primary LEDs emit light downwards to illuminate the below safety ladder. One Secondary LED provides land side visibility, marking the safety ladder at night.

## Performance

For optimum performance, the solar panel must be fully exposed to sunlight. From a fully charged battery the marinaLightUnit will function for +5 nights if solar panel is covered. During extraordinarily long periods of overcast weather or if artifacts block sunlight from reaching the solar panel, reduced performance should be expected.

## Robust and durable

The marinaLightUnit is waterproof class IP68 and can resist a pressure of up to 20 ton. It is maintenance free and has an expected battery lifetime of 5 years.

## Installation

The marinaLightUnit is designed for installation above any 3rd party safety ladder and is very easy to install. Installation requires 4 pcs. M4,8 screws of stainless steel (not included). Screw holes measure Ø5,8 mm.

## Position

The position of the marinaLightUnit should allow the light from the Primary LEDs to illuminate the below safety ladder, either by shining light down between the pontoon/quay and the ladder (preferred), or by shining light down on to the front of the safety ladder. Target of both solutions is to illuminate the ladder's side rails and as many rungs as possible. In most cases the Steel Base will protrude 20 to 35 mm from the front face of the quay. Please fine-tune the position of the first marinaLightUnit at night time to ensure the best effect from the LEDs. When an optimum position has been defined, the Position Marks on the side of the Base Plate can be used as a reference at subsequent installations.

