

## Rotating beacons

### BGC500 • COMPACT MARINE ROTATING BEACON



The BGC500 is a high-quality and high-intensity rotating beacon.

It is compact, lightweight and suitable for solar or standard DC power supplies.

Providing nominal ranges of 22 n.m., it may be used as a medium or long range landfall light or to mark headlands, entrances to estuaries and ports, hazardous reefs, etc.

It is specially suited where durability and resistance to adverse and severe marine environment are required.

## Features

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- Heavy-duty lantern with 500 mm diameter cylindrical glass cover lens of high optical quality.
- High-efficiency acrylic moulded Fresnel lenses, 200 mm focal distance x 500 mm height, type ODA200.
- Hexagonal & octagonal optical arrays.
- Integral bird spike.
- Constructed in marine-grade resistant materials.
- DC direct-drive stepping motor with two operating systems for selection: continuous or activated via photocell.
- Microprocessor controlled, smart user-friendly software.
- Unsurpassed stability & reliability.
- Rotational speed programmable from 0.5 to 10 rpm.
- Lamp voltage programmed with power efficient PWM: it increases the life of lamps considerably and allows to use commercial lamps with any input voltage from 10 to 35 V DC.
- Easy transport & installation.
- Minimum operating and maintenance assistance.
- Status and alarms of motor, batteries and LED's cluster for monitoring and remote control.
- Automatic 6-position CLB12 pefocus marine lamp changer.

## Range of lamps

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- Standard DC power supply.
- Ideal for solar powered stations.
- Standard lamps are pefocus type, 12 V halogen lamps, T-envelope, Pr30s cap., 3,000 life hours

## Technical specifications

- Nominal visibility ranges up to 22 n.m. ( $T = 0.74$ )
- 500 mm diameter, high optical quality glass lens cover.
- Light colours available in clear, red and green (according to IALA Recommendations).
- Fine electronic speed adjustment. Accuracy better than 0.2 %.
- Input voltage 10 - 35 V DC. Any other AC voltage using AC-DC converter.
- Beacon consumption: 159 mA @ 1 rpm. + lamp current.
- Watertightness degree: IP-66
- Electromagnetic compatibility  $\text{CE}$
- Net Weight: 62 kg.
- Shipping Data: 60 x 60 x 110 cm (0,396 m<sup>3</sup>) 77 kg (wooden).

BGC500	Fixed intensity (Cd)	Hexagonal array								
		Effective intensity (Cd)								
Lamps		Rotation speed (rpm)								
		0.5	0.66	1	1.5	2	4	6	8	10
Hal 20 W / 12 V	175.000	99.886	87.839	69.920	53.785	43.700	24.971	17.480	13.446	10.925
Hal 35 W / 12 V	278.000	165.600	146.809	118.286	92.000	75.273	43.579	30.667	23.657	19.256
Hal 50 W / 12 V	324.000	215.893	195.084	161.920	129.536	107.947	64.768	46.263	35.982	29.440
Hal 100 W / 12 V	375.000	262.752	239.737	202.117	164.220	138.291	84.759	61.105	47.773	39.217

BGC500	Fixed intensity (Cd)	Octogonal array								
		Effective intensity (Cd)								
Lamps		Rotation speed (rpm)								
		0.5	0.66	1	1.5	2	4	6	8	10
Hal 20 W / 12 V	161.000	92.000	80.905	64.400	49.538	40.250	23.000	16.100	12.385	10.063
Hal 35 W / 12 V	258.000	154.560	137.021	110.400	85.867	70.255	40.674	28.622	22.080	17.972
Hal 50 W / 12 V	269.000	179.093	161.831	134.320	107.456	89.547	53.728	38.377	29.849	24.422
Hal 100 W / 12 V	331.000	231.840	211.533	178.338	144.900	122.021	74.787	53.916	42.153	34.603

These luminous intensities apply to white light.  
 For red light, multiply by 0.32  
 For green light, multiply by 0.32

