

## Rotating beacons

### BGC300 • COMPACT MARINE ROTATING BEACON



The BGC300 is a high-quality and high-intensity short-focus rotating beacon. It is of short focal distance, compact, lightweight and suitable for solar or standard DC power supplies.

Providing nominal ranges of 20 n.m., it can be used as a medium-range landfall light or to mark headlands, entrances to estuaries and ports, hazardous reefs, etc.

It is specially recommended for installations where durability and resistance to very adverse and severe marine environment is required.

#### Features

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- High efficiency acrylic moulded Fresnel lenses, type ODA105.
- 300 mm diameter, high optical quality glass lens cover of high durability, resistance and transparency.
- Short-focus design allows long flash lengths, thus increasing light conspicuity.
- Robust and durable lantern.
- 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 with smart user-friendly software.
- Unequalled stability & reliability.
- Rotational speed programmable from 0.5 to 10 rpm.
- Lamp voltage programmable with high intensity power efficient PWM: it increases lamp life considerably and allows to use standard lamps with any input voltage, from 8 to 35 V DC.
- CLB12 six-place automatic lampchanger for prefocus halogen lamps as standard version.
- Easy transportation & installation.
- Minimum operating and maintenance assistance.

#### Range of lamps

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

## Technical specifications

- Nominal visibility range up to 20 n.m. ( $T = 0.74$ )
- Standard hexagonal optical arrangement.
- 105 mm focal-distance Fresnel lens.
- 300 mm diameter, high optical quality glass lens cover.
- Light colours available in clear, red, and green (according to IALA Recommendations).
- DC direct-drive stepping motor.
- Microprocessor controlled.
- Programmable rotation speed, from 0.5 to 10 rpm.
- Fine electronic speed adjustment with accuracy above 0.1 %.
- Status and alarms of motor, batteries and lamps for monitoring and remote control.
- Input voltage 8-35 V DC. Any other AC voltage, using AC-DC converter.
- Beacon consumption: 120 mA @ 1 rpm + lamp current.
- Watertightness degree: IP-66.
- Electromagnetic compatibility  $\text{CE}$
- Net Weight: 28 kg
- Shipping Data: 50 x 50 x 90 cm (0,225 m<sup>3</sup>) 44 kg (Wooden)

BGC300	Fixed intensity (Cd)	Effective intensity (Cd)								
		Rotation speed (rpm)								
Lamps		0.5	0.66	1	1.5	2	4	6	8	10
Hal 10 W / 12 V	62.000	37.200	32.979	26.571	20.667	16.909	9.789	6.889	5.314	4.326
Hal 20 W / 12 V	90.000	56.250	50.223	40.909	32.143	26.471	15.517	10.976	8.491	6.923
Hal 35 W / 12 V	110.000	73.333	66.265	55.000	44.000	36.667	22.000	15.714	12.222	10.000
Hal 50 W / 12 V	122.000	87.143	79.843	67.778	55.455	46.923	29.048	21.034	16.486	13.556
Hal 100 W / 12 V	160.000	118.261	109.149	93.793	77.714	66.341	41.846	30.562	24.071	19.854

These luminous intensities apply to white light:

For red light, multiply by 0.32

For green light, multiply by 0.32

