

Rotating beacons

BGC300-HI • MARINE HIGH INTENSITY ROTATING BEACON



The BGC300-HI is a high quality and high luminous intensity rotating beacon due to the use of high intensity lamps.

It is lightweight, has a short-focus and compact, designed for AC power supplies due to its low consumption it is very suitable for solar power supplies. Providing nominal ranges of up to of 23 n.m., it may be used as a long-range landfall light or to mark headlands, entrances to estuaries and ports, hazardous reefs, etc.

The design and quality of the materials make it specially suited where durability and resistance to adverse and severe marine environment is required.

Features

- High efficiency acrylic moulded Fresnel lenses, ODA105.
- Optical system protected by a 300 mm diameter fixed optical lens cover, which has a long duration, 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.
- Unsurpassed stability & reliability.
- Electronic lamp ballasts to considerably increase the life of lamps and their capacity. Rotational speed programable from 0.5 to 10 rpm.
- Automatic 2 position lamp changer for high intensity discharging lamps.
- 12 V DC and 120 or 220 V AC.
- Easy transportation & installation.
- Minimum operating and maintenance assistance.
- Especially designed for monitoring and remote control, by RS232 serial port. AC / DC power supply.
- Suitable for solar powered installations.

Range of lamps

- 12,000 life hours 120 or 220 V AC metal halide discharge lamps.
- 6,000 hours life 12 V Xenon discharge lamps

Technical specifications

- Nominal luminous ranges of 23 n.m. ($T = 0.74$).
- Standard hexagonal arrangement.
- 105 focal distance Fresnel lens.
- 300 mm diameter, strong high optical quality glass lens cover.
- Colours available: clear, red and green (according to IALA Recommendations).
- DC direct-drive stepping rotating motor system.
- Microprocessor controlled.
- Rotating speed programmable from 0.5 to 10 rpm.
- Fine electronic speed adjustment. Accuracy better than 0.1 %.
- Status and alarms of motor, batteries and LED's cluster for monitoring and remote control.
- Voltage supply: 12 V DC and 120 or 220 V AC. Any other AC voltage using AC-DC converter.
- Consumption of the beacon: 120 mA @ 1 rpm + lamp current.
- Watertightness: IP-66.
- Electromagnetic compatibility **CE**
- Net Weight: up to 33 kg
- Shipping data: 50 x 50 x 100 cm (0,25 m³) 50 kg (Wooden case).

BGC300-HI	Fixed intensity (Cd)	Effective intensity (Cd)								
		Rotation speed (rpm)								
		0.5	0.66	1	1.5	2	4	6	8	10
Lamps										
HI 35 W / 220 V	189.000	157.500	149.525	135.000	118.125	105.000	72.692	55.588	45.000	37.800
HI 70 W / 220 V	216.000	187.826	180.301	166.154	148.966	135.000	98.182	77.143	63.529	54.000
XL 35 W / 12 V	650.000	472.727	434.783	371.429	305.882	260.000	162.500	118.182	92.857	76.471

These luminous intensities apply to white light.

For red light, multiply by 0.32

For green light, multiply by 0.32

