SABIK
a Carmanah company

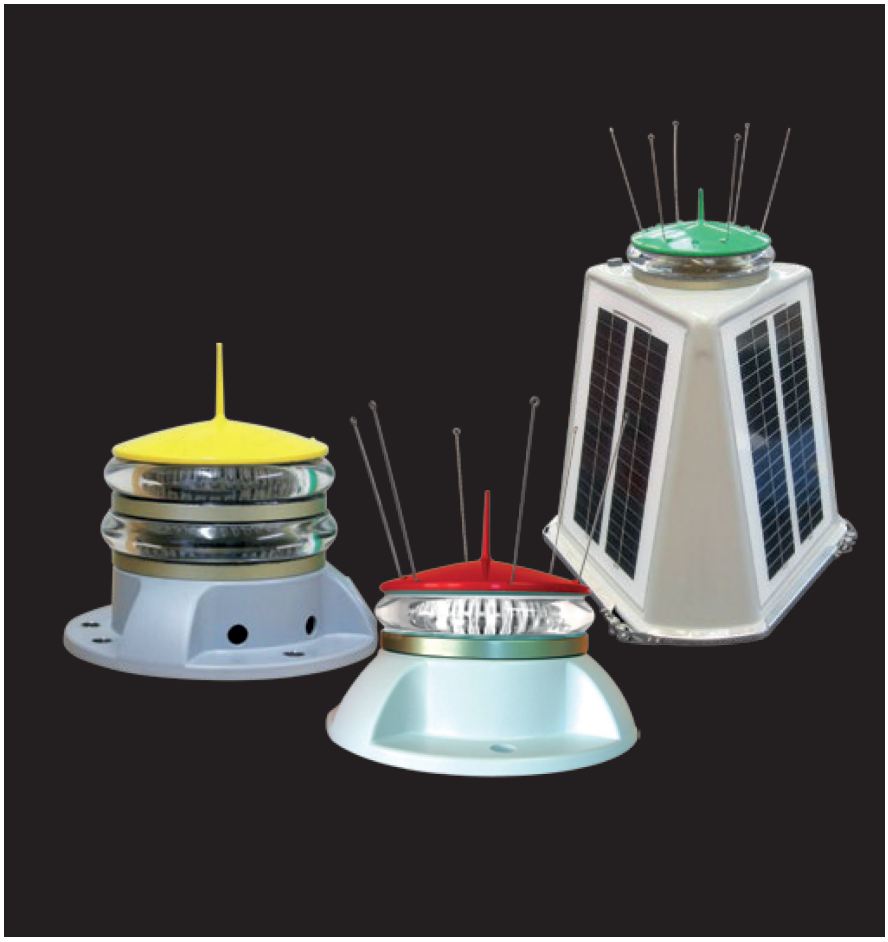
VLB-36

Medium range lantern
4-7 NM

The range of 7 nautical mile marine beacons use highly efficient optics and electronics providing energy efficiency as high as 90 candela per Watt at 5 NM (depending on vertical divergence)

This level of efficiency significantly reduces the solar panel and battery requirement in standalone applications.

- **2 different vertical divergences to cover fixed and floating applications: 10° (ideal for buoys), 7° (for land/pole use)**
- **It is also available as a stand-alone or a self-contained with 7.8W, 15W or 30 Watts solar power.**
- **The available colours are red, green, white, yellow and blue.**
- **The unique optical system utilises an acrylic lens to maximise the light capture from the LEDs.**
- **The LEDs are precisely graded and placed to produce a light beam with minimum variation in intensity.**
- **A switch mode regulator maintains the light output of the LEDs independent of input of voltage and temperature.**



Monitoring

Programming is done using Vega IR programmer

- **Optional alarm/monitor connection**
- **AIS type 1 or 3 with current sensor**
- **VegaWeb monitoring system**

Functionaltity and Features VLB-36

Programming features

- Up to fifteen effective intensity settings for every tier/ colour combination
- Automatic Schmidt Clausen intensity correction
- Colours meet the IALA chromaticity requirement.
- Full IALA programmable flash characters
- Flash sync delay from 0 to 9.9 seconds
- Nine Lux levels to determine day/night transition
- Programmable low voltage cut-out threshold
- Optional internal GPS
- Optional security code for programming
- Optional internal GPS monitoring to VegaWeb

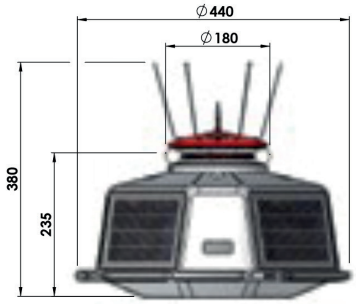
Technical Specification VLB-36

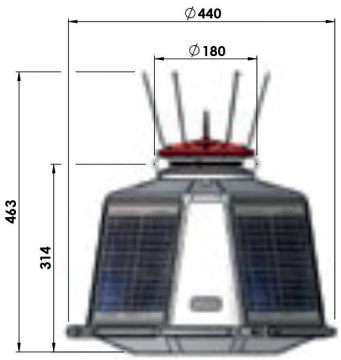
Optical Performance

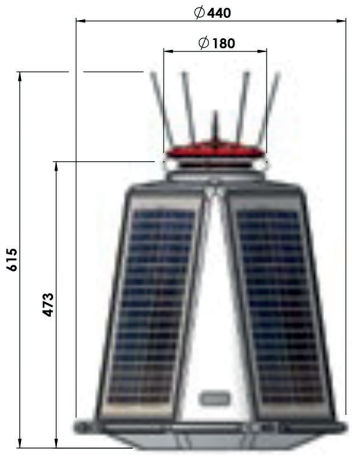
Maximum intensity (Single tier)					
7° Peak	570cd	320cd	330cd	520cd	100cd
7° Effective	290cd	240cd	290cd	290cd	66cd
10° Peak	470cd	220cd	190cd	300cd	40cd
10° Effective	240cd	150cd	150cd	161cd	29cd

Optical specification

Light source	High-Intensity LEDs
Colours available	Red, Green, White, Yellow and Blue (Meet IALA requirements)
Horizontal divergence	360°
Flash character	Fully programmable (including presets)
Vertical divergence	7° @ 50% peak 10° @ 50% peak
Temperature control	LEDs monitored for excess temperature







Environmental specification	
Intrusion protection	IP68
Cooling	Convection cooling heat sink
Temperature	-30°C to 50°C
Salt	Continuous exposure to saltwater and spray
Wind	140 KT
Ice	22 kg/m²

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Materials

Lens	Machined cast acrylic; UV-protected
Base	UV resistant ASA
Body	Marine grade aluminium
Bird spikes	Stainless steel

Electrical specification

Voltage	12 VDC (10 - 18 VDC)
Battery protection	Programmable low voltage cutoff Reverse polarity protected
Day/Night Transition	Adjustable levels
Active off current	4 mA
Standby current	0.5 mA
Synch input/output	Ground pulse 10ms wide at start of character

Model	Solar	Recommended battery
Stand-alone	N/A	N/A
Small solar	7.8W	12Ah12V
Medium solar	15W	12Ah 12V
Xtra large solar	30W	12Ah 12V

Order Overview VLB-36

Option matrix

GS	GPS synchronization
Remote-02	Extra Infrared Remote
CP/SW	Charge port/sync wire

Product code

Code VLB-36-C-V-S	**Note**
C	Colour (G, R, W, Y, B)
V	Vertical divergence (7° or 10°)
S	Size (SA = Standalone, SM = Small, MD = Medium, XL = Extra large)