

Purchase Specifications for a 1-2+ Nautical Mile Range Marine Lantern

Overview

This specification is for a 1-2NM+ marine lantern.

1.0 Light Characteristics

The lanterns light source will be one (1) LED.

The lantern output shall be available in red, green, white, yellow and blue.

The lantern shall have a typical maximum available intensity of up to:

- Red lantern output 6.2cd
- Green lantern output 7.6cd
- White lantern output 6.8cd
- Yellow lantern output 5.9cd

The lantern shall have a visible range of 1-2NM+.

The lantern shall have a horizontal output of 0-360 degrees.

The lantern shall have a vertical divergence of 7 degrees.

The lantern shall have 16 user-adjustable IALA flash characteristics with other flash patterns available on request.

The lantern shall have 32 automatic step-down settings based on power demand of flash code selection.

2.0 Electrical Characteristics

The lantern shall have integrated circuit protection.

The lantern shall have a nominal voltage of 3.6V DC.

The lantern shall have an autonomy >50 days.

The lantern shall have an operating temperature range between -40 to 80°C.

3.0 Solar Characteristics

The lantern shall have one (1) multicrystalline solar module.

The solar module shall be 0.45 watts.

4.0 Power Supply

The battery type shall be Nickel Metal Hydride (NiMH).

The battery shall have a capacity of 1.6Ah.

5.0 Physical Characteristics

The body of the lantern shall be manufactured from UV-stabilised polycarbonate.

The lantern lens shall be manufactured from UV-stabilised polycarbonate or equivalent.

The lantern shall have a lens diameter of 98mm (3 $\frac{7}{8}$ inches).

The lens design shall be single LED optic.

The lantern shall have 4 x 6mm mounting holes.

The lantern shall have a height of up to 141mm (5 $\frac{1}{2}$ inches).

The lantern shall have a width of 136mm (5 $\frac{3}{8}$ inches).

The lantern shall have a mass of 0.5kg (1 $\frac{1}{8}$ lbs).

The lantern shall have a life expectancy of up to 12 years.

6.0 Options

The lantern shall be offered with the following options available from the manufacturer:

- ON/OFF switch
- Custom flash patterns
- 50mm pole mount adapter plate
- IR Programable via Remote

7.0 Certifications

The lantern shall be IP68 waterproof.

The manufacturer shall be ISO9001:2008 certified.

The lantern shall meet the following certifications EN61000-6-3:1997. EN61000-6-1:1997.

The lantern shall meet IALA recommendation E-200-1 Signal colours

8.0 Warranty

The lantern shall have a three (3) year warranty, excluding battery which will have a warranty of one (1) year.