FA-250EX962 LED Flameproof Marine Lantern

Pharos Marine Automatic Power
Global Quality, Global Solutions

The FA-250EX962 is a Zone 1 rated, long range, marine signaling lantern featuring the latest in LED technology. Compliant with IALA/North Sea requirements it consists of an array of high flux Light Emitting Diodes mounted inside a certified Flameproof transparent enclosure. The lantern is ATEX certified Ex 'd' IIB T4/T5/T6.

Designed to be placed in remote locations, the lantern incorporates very long lived LEDs to minimize schedule maintenance. The FA-250EX962 features high flux LED arrays mounted on a stainless steel, parabolic reflector. The highly efficient reflector uses a state of the art dichroic hybrid spectral metal coating. The LEDs are mounted on metal core PCBs with **patented** integrated heat pipes to cool the LED arrays **without a cooling fan.** This highly efficient, passive, cooling system gives the LED array the highest design life in the marketplace (greater than 60,000 hour).

The materials of the FA-250EX962 housing are selected to match the life of the LED contained inside. No plastic is used in the unit. The cover is tempered toughed glass able to withstand high impact and the base is impregnated, anodized and painted cast aluminum.

The AM-11 electronic controls for the FA-250EX 962 may be located within the lantern or as much as 500 meters away from the flash head. AM-11 provides current limiting to the LED, flash control, monitoring output, photocell input and a synchronization terminal. The AM-11 has a nominal input 24 DC. 120-220-240 VAC 50-60Hz are available.

Mechanical Data:

No moving parts.

Height: 451 mm. **Weight:** 15 kg.

Materials: Marine epoxy coated cast LM-6 aluminum base. Anodized reflector housing. Stainless reflector.

Mounting: Four M10 X 1.5 holes, 90 degrees apart on a 200 mm (7 7/8") bolt circle.

Ingress Protection: IP-67

Corrosion Protection: NEMA 4X

Operating Temperature: -40ºC to +55ºC.

VARIATIONS OF LANTERN

FA-250EX962-15 mile: 300 Watt LED Array providing Flashing 15-mile Morse U White Light . Average power 50W.

FA-250EX962-10 mile: 16.5 Watt LED Array providing Flashing 10-mile Morse U White Light. Average Power 2.75 watts.

FA-250EX962-3 mile: 10 Watt LED Array providing Flashing Morse U 3-mile Red Light. Average Power 2.0 watts.

FA-250EX962-L-864: 35 Watt LED Array that complies with ICAO Type B or Type C, Flashing or Fixed Medium Intensity Aviation Obstruction Light.

EC-Type Examination Certificates

- **Certificate No.: Intertek ITS10ATEX17118X**
  Coding: II 2 G Ex d IIB T4/5/6
- **Certificate No.: IECEx ITS 10.0040X**
  Coding: Ex d IIB T4/5/6 Tamb -20°C/-40°C to +40°C/+55°C Gb (Dependant on model)
- **Epsilon IP Certificate Number: 04TEST1386**
  IP Rating: IP67

Patent No.: US 7,461,952
Specifications subject to change without notice