

# FA-250EX FLAME-PROOF MARINE LANTERN

## ZONE 1 EEx d IIB T4-T6.

The FA-250EX Zone 1 Lantern, certified by BASEEFA under Certificate N° EX 85B1240, utilizes all the features of a standard FA-250 marine lantern with the addition of a flame-proof glass dome internal fixture to house either lamps, xenon flash tube, lampchangers, transformers or DC-DC convertors in various combinations to meet the signaling performance requirements.

The lantern enclosure comprises a cast base of LM-6 marine grade aluminum, an upper section of a glass globe cemented into a support ring and a tapered spigot joint forming the flamepath. Due to the nature of the flameproof, IP-66 enclosure approval, a variety of non-hazardous certified internals can be used. M20 or M25 dual cable entries remove the need for additional junction boxes.

**An important safety feature of the FA-250EX lantern is the low maximum surface temperature of the fixture during operation. The 10-mile lantern has a maximum of 85EC (T6) where competing units are 200EC (T3). The 15-mile lantern has a maximum of 135EC (T4) where competing units are 300EC (T2).**

The FA-250EX lantern system offers several advantages for offshore platform applications. Its lens cover and the cast-aluminum base are the most durable and longest life system in use. The FA-250EX lantern, with its smooth, acrylic lens cover, eliminates the buildup of fillets of moisture, dust, salt spray, raindrops and other contaminants on the internal fresnel lens prisms and tend to wash clean during rainfall. Field testing of **exposed fresnel lens prisms recorded 14.3% loss** of candlepower in **six weeks** of exposure. The same fresnel lens **with cover recorded only 1.6% loss** during the same test period.

When fitted with an APCL-5 FLASHCHANGER®, the FA-250EX lantern becomes the most versatile product on the market. Configured as a 10-mile, Morse U light, the lantern will accept an input voltage of 12, 18, 24 volts and, with an internally mounted DC-DC convertor, 130VDC and operate a 12 volt, 2000 hour 35 watt tungsten halogen lamp.

The APCL-5 FLASHCHANGER® features six-place motor driven, shock-free lampchanging with automatic recheck of all failed lamps, selectable flash rhythms, solar charge regulator, communications interfaces, synchronization terminal, lampout control terminal, and photocell.



### APPROVED VARIATIONS OF LANTERN.

**FA-250EX901:** 500W 82V Tungsten Halogen Lamp. 3000 Hours Flashing Morse "U".

**FA-250EX911:** Two-Place Lampchanger with Two Each 500W 82V Tungsten Halogen Lamps. 6000 Hours Flashing Morse "U".

**FA-250EX931:** APCL-5 FLASHCHANGER

**FA-250EX9113:** Short Range External Fresnel Lens

**FA-250EX971:** 24 Volt 150W Halogen Lamp on Six Place FLASHCHANGER. 12,000+ Hours Flashing Morse "U".

### APPLICATIONS/TEMPERATURE RATING

LAMP	CANDELA	APPLICATION	TEMP
82V 500W	15,600	NORTH SEA 15-MILE DUPLEX	T-4
12V 35W	1950	IALA 10-MILE	T-6
12V 6W	36	SUBSIDIARY 3-MILE RED	T-6

Colored lens filter factors--red (0.30), green (0.32) and yellow (0.58).

FLASHCHANGER® is a registered trademark of Automatic Power, Inc.