

Solar Powered, Zone 1, 10-mile Obstruction Light

FA-250 EX Lantern System

The FA-250EX 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 flame path. Due to the nature of the flameproof, IP-66 enclosure approval, a variety of non-hazardous certified internals can be used. M20 or M25 multiple cable entries remove the need for additional junction boxes.

An FA-250EX Lantern system flashing 12 Volt 35 Watt tungsten halogen lamps provides a 10-mile range. Due to the miniature size of the lamps, they can be mounted on a six-place APCL-5 FLASHCHANGER®. Each lantern operates as a complete independent unit with both flasher and lampchanger circuits. When connected by a synch wire to flash lanterns in unison, the failure of one lantern has no effect on the performance of the other lanterns. Form C contacts for failure alarm provided.

10 MILE LIGHT SPECIFICATIONS

Lantern:	FA-250EX951
Classification:	BASEEFA EEx d IIB T6
Range Verification	Trinity House Tested
Input voltage:	12-24 Volts DC.
Input Power:	9 Watts avg.
Flash Rhythm	'U' (0.7-0.4-0.7-0.4-1.8-11)
Lamp	12 Volts, 35-Watt Tungsten Halogen, 2000 Hour.
Lampchanger	6-place APCL-5
Total Lamp Life	12,000+ Hours
Nominal Range:	10 Mile
Monitoring:	NO/NC Form C Dry contact closure on lantern failure.
Power Supply:	Zone 1 Solar Power System
Weight:	15 kgs.
Dimensions:	200 mm X 750 mm.
Mounting:	4 X 16 mm bolts on a 200mm PCD.
Enclosure Rating	EEx 'd'
Ingress Protection	IP-66

Zone 1 Solar Power System

Solar module features 36 series connected, high efficiency crystalline silicon cells mounted in an anodized aluminum frame. Valve Regulated Deep Cycle Lead-acid Batteries are mounted in a Zone-1 battery box with batteries protected to IP-54. Solar charge controller is incorporated in APCL-5 FLASHCHANGER. System includes, a six-pole Zone 1, fused, disconnect switch.

SOLAR POWER SYSTEM SPECIFICATIONS

Solar Module:	BP275EX
Classification:	AUS Ex e IIC T4
Nominal Voltage	12 Volts
Nominal Current	3.8 Amps
Charge Regulator	10-amp APCL-5 in lantern EEx d housing.
Battery Box:	Ex e II T4 X
Battery Box Dim. (mm)	755 X 453 X 423.
Capacity	120-480 AH at 12 volts
Ingress Protection	Batteries Protected to IP-56
Material	Galvanized or Stainless Steel
Battery:	Valve Regulated, Deep Cycle Maintenance Free Lead Acid
Life Technology	2000 cycles at 10% DOD AGM
System:	
Weight:	150 kgs maximum.
Height:	2000 mm.
Disconnect Switch:	
Rating	EEx de
Configuration	Six-Pole maximum
Fuses	7-Amp

