

Steady-Burning Red Obstruction Light Model IOB-249 Optimized for Extended Maintenance Intervals

This low intensity, omnidirectional, red obstruction light complies with the requirements of ICAO Annex 14 6.3.11. The light consists of a precision molded 155mm red acrylic lenses mounted on a FA-249 lantern. For single lantern installation, the lantern contains six each, 12 volt, prefocussed marine signal lamps mounted on a six-place APCL-5 FLASHCHANGER®. For multiple lantern installations, an single APF-247UA provides photocell control and voltage regulation for the tower and each lantern contains a six place APL-1297A Lampchanger. When the operating lamp fails, the FLASHCHANGER® /Lampchanger automatically rotates the next lamp into precise focal position. The FLASHCHANGER®/APF-247UA accepts any input from 12.0 to 30 volts and uses highly efficient, pulse width modulation regulation to operate the lamp at 10.50 volts giving 5,300 hours of life per lamp and 31,800 total hours of lamp life for the optic. With the built-in photocell daylight control, the optic has in excess of seven years of lamp life.

Technical data:

Lens: 155 mm aviation red, acrylic, fresnel lens (30% filter factor).

Lamps: Prefocussed, S-8 envelope, CC-8 or C-8 filament, Krypton-filled, Incandescent, 5,300 hours at 10.5 Volts.

PHOTOMETRIC/ELECTRICAL DATA

12Volt Lamp	Candela (red)	Power (watts)
0.25 Amp	11	2.7
0.5 Amp	38	5.4
1.0 Amp	102	10.8
2.0 Amp	200	21.6
3.0 Amp	278	33.0

Beam: 360 degrees horizontal. Center of vertical beam is +10 degrees.

Mechanical Data:

Materials: Acrylic lens, Lexan housing, stainless steel fittings, stainless steel mounting inserts, silicone-rubber lens gasket.

Bottom Mounting: Four 5/8 inch diameter holes on 7 1/8 inch bolt circle.

Bird Spike provided at top of optic. Hinged at midpoint for relamping. External Daylight Control mounted on 3/4 inch NPT plug.

Environmental: IP-55 enclosure rating, Gold-plated electrical contacts. Salt Fog and High Voltage Discharge Testing.

Electrical Data:

Input Voltage: Any voltage over the range of 10.7-30 Volts DC.

Supply: 12, 18, or 24-Volt Solar Power System. DC power supply with various AC inputs. Battery charger/battery bank.

Factory Mutual Approved for NEC, Class 1 Division 2 Hazardous Areas. This unit is designated FA-249.

Dimensions:

Height: 18 1/2 inches. Weight: 6.5 lbs.

Shipping Volume: 2 cu ft. Shipping Weight: 10 lbs.



COMPARATIVE ADVANTAGES

Low Power Consumption--2.7 Watts for 10 candela output.

Extended Lamp Life--30,000+ hours of lamp life.

Reliability--Six lamps in optic.

Simplicity--Single lantern with lampchanger replaces duplex fixture at top of tower.

Flexible Power--12/24 Volt solar power, 12/24 battery charger/batteries, or 12/24 Volt power supply with 120V/220V/240V input.

Safety--No dangerous voltages on the tower.

Standardized Lighting System--Same lighting system regardless of the power input at the base of the tower.

FLASHCHANGER® is a registered trademark of Automatic Power, Inc. 10/17/95



Automatic Power Inc