



### ELECTRICAL DATA ICAO TESTED

**Illuminance:** @13 lux (ICAO TYPE A)  
**No. Of LEDs:** 75 LEDs  
**Maximum forward current:** 200mA  
**Typical power consumption:** 2.5W Max. at 12 V DC  
**Input voltage variability:** ±10%  
**PIV protection:** LEDs internally protected against rev. voltages up to 1 kV  
**Insulation resistance:** >200 megohms at 1000V  
**Dielectric strength:** 2.5 kV  
**Solar Panel :** 12V 10Wp  
**Dome :** Polycarbonate (Clear / Red)  
**Body :** Aluminium with Powder coating / Polycarbonate  
**Battery:** Exide make (12V 7AH) maintenance free.  
**Min. 3 Photosensors provided for automatic operation**

## AOL COMPARATIVE COST-CALCULATION of the savings affected by our SOLAR TYPE AVIATION OBSTRUCTION LIGHT with Photosensor or LED Based Aviation Obstruction Lights as compared to a single light using 220V/200W filament bulb is given below:

Sr. No.	PARTICULARS	CONVENTIONAL AOL WITH 200W FILAMENT BULB	CONVENTIONAL AOL WITH NEON SPIRAL	GANESH LED AOL	GANESH SOLAR LED AOL
1	Replacement cost	Rs. 500.00	Rs. 4,500.00	Rs. 3,500	Rs. 8,500
2	Life	1000 hrs.	5000 hrs	1,00,000 hrs	1,00,000 hrs
3	Replacements/year	4.38	1	0.0438	0.0438
4	Capital cost/year	43.80 (Rs. 10/bulb)	Rs. 4,500.00	Rs. 247.15	599
5	Battery cost per year	0	0	0	200
6	Cable Charges	6000	6000	6000	0
7	Cable laying charges	2000	2000	2000	0
8	MCB and other equipments charges	1000	1000	1000	0
9	Annual costs for replacement / Maintenance activities	Rs. 8,760.00 (@ Rs. 2000.00/instance)*	Rs. 2000.00	Rs. 0.00	Rs. 666
10	Wattage	100 W	80 VA	8.8 W	0
11	Units of Electricity (KwH) consumed/year	438 KwH	350 KwH	38.6 KwH	0
12	Annual cost of above Electricity @ Rs.4.00/unit	Rs. 1752	Rs. 1,401.00	Rs. 154.4	0
13	<b>Total cost/year (4+5+9+12)</b>	<b>Rs. 10,555.80</b>	<b>Rs. 7901.60</b>	<b>Rs. 401.55</b>	<b>Rs. 866</b>
14	<b>Initial cost (1+6+7+8)</b>	<b>9500.00</b>	<b>Rs. 12,500</b>	<b>Rs. 11,500</b>	<b>Rs. 8500</b>

### PHYSICAL FEATURES AND DIMENSIONS

- Size LxWxD =420 x 325 x 400 mm
- Weight 6 kg.
- Battery Exide / Reputed make 12 v 7 ah.
- Solar panel Waaree / Moser baer / Reputed make 12 v 10 wp.
- LED power consumption max. 2.5 watts at 12 v.
- Enclosure Aluminium casted with powder coating / ABS / Polycarbonate
- Dome Red / Clear polycarbonate with / without bird spike.
- Mounting Clamp M.S. with 1/2 BSP nipple
- Mounting bottom with 1/2 bsp threading
- Solar panel mounting clamps M.S. with electroplating
- Gasket 1.5 mm. made from nitrile rubber
- Photosensor provided for automatic operation as per day light
- Minimum working hours without charging 30 hours.

**Clients : AKASHWANI, DOORDARSHAN, ESSAR TELECOM INFRASTRUCTURES LTD, ETC.**

### MANUFACTURED BY

**GANESH ELECTRICALS**

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