

# AVIALITE®

LED LIGHTING INNOVATION ✈

Compact - Lightweight - Robust - Reliable

ICAO Medium Intensity Type A (White LED)



## MS-20KP Series



Auto ON / OFF

ICAO Medium Intensity  
ICAO Type A (Flashing)


### DESCRIPTION

AVIALITE MS-20KP Series is a Solar powered white LED flashing Medium Intensity obstruction beacon.

MS-20KP fulfills **ICAO Medium Intensity Type A** :

- Day time Effective luminous Intensity: (20,000 cd white)
- Night time Effective luminous Intensity: (2,000 cd white)

### APPLICATIONS

- :: Tall Buildings
- :: Wind Turbines, Bridges
- :: Cranes, Pylons and Chimneys
- :: Power Transmission Towers
- :: Telecommunication Towers and all structures that require Medium Intensity Obstruction lights especially tall structures in the aviation traffic corridors above 45-150m high

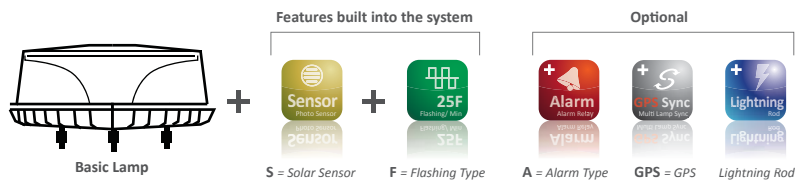


### FEATURES




- :: Ultra High brightness CREE LED light source
- :: Expected LED life span of >100,000 hours under normal operating conditions
- :: Weather proof Lamp (IP67), corrosion & chemical resistant
- :: Compact, light weight, highly resistant to shocks & vibrations
- :: Clear PMMA automotive grade lens, resist UV & yellowing
- :: Excellent heat dissipation for optimum LED performance
- :: Excellent 1 to 1 product swap policy (Terms & Condition apply)
- :: Built tough for long service life

### PRODUCT BENEFITS




- :: Install with ease on site with minimum tools and manpower
- :: Virtually maintenance free operation and design
- :: Low wind drag and unobtrusive
- :: Ultra low operation cost, quick ROI






**OPTICAL CHARACTERISTICS**




ICAO Type	 (Flashing) ICAO Medium Intensity Type A
Colour	 LED Source 60 LED cluster White color
Effective Luminous Intensity	 Day 20,000 Candela (cd) White Night 2,000 Candela (cd) White
Vertical Beam Spread	>3°
Horizontal Beam Spread	360° omni-directional

**POWER**

<b>Solar Panel</b>	 2x 30W Polycrystalline silicon photovoltaic cells
Peak Power	 30 watts peak
Max Power current	0.83A
Max Power Voltage	33.6V
Dimensions	345x525x25mm
Weight	6Kg (2x 3kg)
<b>Battery Powered</b>	 Built in solid state battery charger
Rated Voltage	48V system (4x 12V)
Rated Capacity	4x 7.2AH maintenance Free sealed Lead Acid Battery
Special Features	Automatic Battery low voltage disconnect
Autonomy	5 Days
Dimensions	4x (121x65x100mm)
Weight	9.6kg (4x 2.4kg)

Protection Fuse	 Provides added protection against accidental battery short-circuit which could result in damage to battery or lamp
Tool Free System	 Change battery without tools Faster and convenient
Lightning Arrestor	 Lightning Rod that serves as a lightning arrestor (optional item)




**OPERATING CONDITIONS**

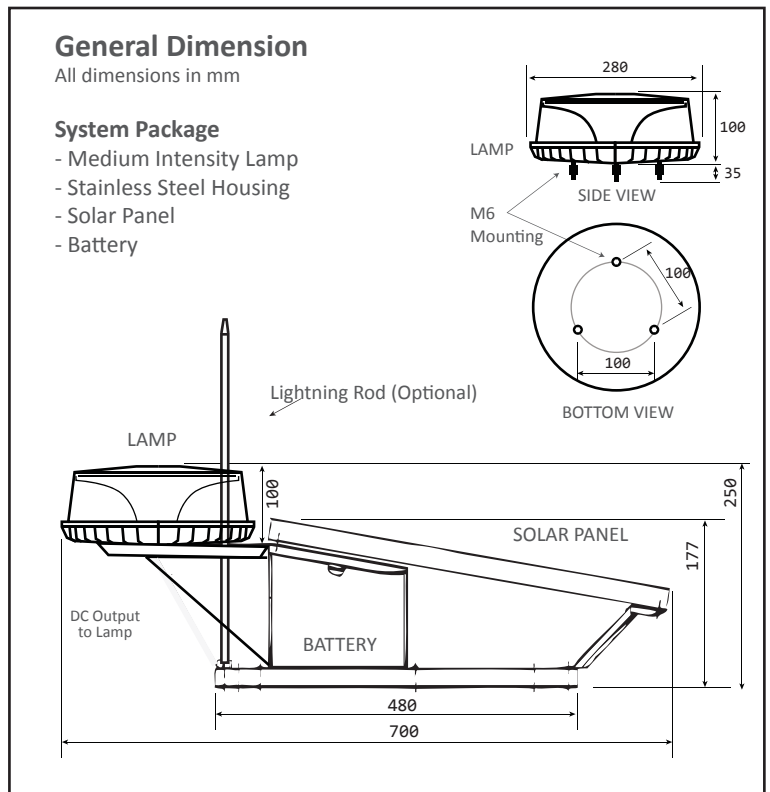
Temperature	-20°C to +60°C
Ingress Protection	 IP67 (Lamp) IP55 (Casing ; Solar + Battery)
Vibration Resistance	 Resistant to shock and vibration
Alarm Relay Conditions	 For remote monitoring of: A. Power supply failure B. Lamp failure
Lamp Failure Alarm Output	1. NO (Normally Open) 2. Com (Common) 3. NC (Normally Closed)

**DIMENSIONS & WEIGHT**

<b>LAMP</b>	
Height	100mm (including mounting bolt)
Diameter	280mm
Weight	2kg
<b>Housing</b>	
Solar + Casing Dimension	700x690x250mm
Casing Material	Stainless Steel
Weight	Solar (6kg) +Battery (9.6kg) +Casing (2kg)
Total Weight (System)	Approx 18kg

**SPECIFICATION**

<b>Sensor</b>	Solar panel, auto ON/OFF of lamp
Light sensor sensitivity	 Ambient light < 50 Lux (±10%) = Lamp 'ON' > 50 Lux (±10%) = Lamp 'OFF'
Flashing Rate	 25 fpm (flash per minute)
GPS Sync Flashing (Optional)	 Supports multi lamp flashing using GPS synchronization (Wireless)



Model	ICAO Medium Intensity	DC Voltage (±10%)	Effective Brightness	Description
MS-20KP	Type A (Flashing)	48	20k/2k cd Day/Night	Basic Lamp
MS-20KP-R	Type A (Flashing)	48	20k/2k cd Day/Night	+ ALARM
MS-20KP-GPS	Type A (Flashing)	48	20k/2k cd Day/Night	+GPS Sync to other GPS lamps



DEPARTMENT OF CIVIL AVIATION  
MALAYSIA

# OBSTACLE LIGHTS CERTIFICATE

**ASD404/CERT/018/2017**

**AVIALITE SDN BHD**  
NAME OF PRODUCT DISTRIBUTOR

This Certificate is issued pursuant Airport Standards Directive 404 [ASD404], published under the provision of Section 24o of Civil Aviation Act 1969 [Act 3], to certify that the obstacle lights offered by Distributor **AVIALITE SDN BHD** has complied with the requirements of Airport Standards Directive 404 and Annex 14 Vol. I to the Convention on International Civil Aviation pertaining to obstacle lights of the following Type Code[s] –

- i. DCA/L/A Model no.
- ii. DCA/L/B Model no.
- iii. **DCA/M/A Model no. MS – 20KP Series**
- iv. DCA/M/B Model no.
- v. DCA/H/A Model no.
- vi. DCA/H/B Model no.

The Authority may suspend, revoke or vary this Certificate at any time if the above listed obstacle lights fails to comply with the requirements of Airport Standards Directive 404 and Annex 14 Vol. I.

This Certificate shall remain in effect from the date of issue until **31 December 2018**.

  
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DIRECTOR OF AIRPORT STANDARDS  
DEPARTMENT OF CIVIL AVIATION MALAYSIA

**21 November 2016**  
DATE OF ISSUE