

SA-20

AUTONOMOUS SOLAR POWERED LOW INTENSITY AVIATION OBSTACLE LIGHTS TYPE A

THE EQUIPMENT IS DESIGNED FOR INSTALLATION ON HIGH BUILDINGS, TOWERS, PILLARS, CHIMNEYS ETC., WHICH ACCORDING TO THE ICAO REQUIREMENTS, SHOULD BE MARKED AS OBSTACLES FOR AVIATION.

THE EQUIPMENT IS USED IN CASES WHEN THERE IS NO POWER SUPPLY AVAILABLE OR ITS PROVISION AND MAINTENANCE ARE NOT EFFECTIVE.



SA-20

FEATURES

- Automatically switch on the lamp when it is dark
- Automatic switch on of stand-by lamp
- Protection against battery overcharging
- Protection against battery discharging
- Operating of alarm signals
- Various modes of operation (automatic, manual, test).

TECHNICAL CHARACTERISTICS

For the device

IP degree:	IP 65
Autonomous operation:	14 nights
Control mode:	Intelligent controller
Number of lamps:	2 (main lamp, stand- by lamp)
Output for alarms:	relay contact
Operating temperature:	- 25° C to 50° C
Overall dimensions:	185 x 514x 426 mm
Weight:	16.5 kg

For the lamp

Light source:	LED ALOL - AM8
Luminous intensity:	> 10 cd
Emitted light colour:	red
Light mode:	constant*
Power consumption:	1.2 W
IP degree:	IP 66
Approx life time:	100 000 hours

* Due to a particular requirement the light source can be manufactured in a flashing light mode. In this case autonomous operation by 35 nights is reached.

COMPOSITION

- Main lamp
- Stand-by lamp
- Photovoltaic solar panel
- Controller
- Battery
- Mechanical construction
- Installation accessories

For the solar panel

Output power:	20 Wp
Overall dimensions:	445 x 426x 28 mm
Surface:	glass, self cleaning
Technology:	photovoltaic, monocrystalline type
Approx life time:	25 years

For the battery

Voltage:	12V
Capacity:	20 Ah
Approx life time:	up to 5 years

For the mechanical construction

Type of material:	stainless steel
Installation Mode:	horizontal, vertical, on pillar
Tuning the solar panel slope angle:	by 10°

RECOMMENDED SLOPE of the solar panel depending on project site latitude

Site Latitude in Degree	Fixed Tilt Angle (α)
0 ÷ 15°	15°
15 ÷ 25°	Same Latitude
25 ÷ 30°	Latitude +5°
30 ÷ 35°	Latitude +10°
35 ÷ 40°	Latitude +15°
40°+	Latitude +20°

For transport	90°
For service	0°

