

AV60 Solar Aviation Light

Typical Applications

- ▶ Solar Barricade Light
- ▶ Solar Caution Light
- ▶ Solar Hazard Light
- ▶ Solar Taxiway Light (ICAO)
- ▶ Solar Obstruction Light

Major Benefits

- ▶ 3.7km visible range (flashing)
- ▶ Integrated solar/battery system
- ▶ IP68 waterproof rating
- ▶ User-replaceable battery
- ▶ Ultra-high intensity LEDs (no changing globes ever)
- ▶ ICAO Compliant AV60 Solar Taxiway Light. Meets the requirements of ICAO Annex 14 Volume 1 "Aerodrome Design And Operations" Fourth edition July 2004, paragraph 5.3.17.7.



The AV60 Solar LED Light provides in excess of 3.7km visible range and is suitable for a variety of applications including taxiway, general hazard, barricade and low-intensity obstruction lighting.

Designed to be maintenance-free and have a service life of up to 12 years, the popular AV60 model boasts user-adjustable intensity settings and can be set on-site to either fixed-on or flashing operation. The light is simply switched "On" and the unit is ready for immediate operation. Once installed, the AV60 requires no operator intervention.

The internal solar module charges the battery during daylight hours, and at dusk the light will automatically begin operation, once the ambient light threshold drops sufficiently. The battery is housed in a sealed compartment allowing the battery to be changed after years of service.

Coupled with the latest LED technology and a highly efficient DC/DC converter, the light may provide over 24 days of continuous operation without sunlight. The AV60 comes with a large 200mm OD base pattern and is available with voltage-free contact for remote monitoring.

Several thousand AV60 units are installed throughout Asia, Africa and the Middle East to mark telecommunications towers and other aerial obstructions.

AV60 Sync

The AV60-Sync is a hard-wired synchronised flashing version of the popular AV60 Solar Aviation Light. The installer simply connects the lanterns using a hard-wired connection to maintain synchronised flash patterns when required on multiple lantern installations. This lantern, which includes a 1-metre pigtail wire, features proprietary high-performance software to analyse the synchronisation signals shared by connected lanterns. Should one be damaged, the other lanterns will select a 'master' and continue flashing in sequence. If the wiring is damaged, all lanterns continue to operate independently.



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Total Turnkey Airport Solutions



AV60 Solar Aviation Light

SPECIFICATIONS

Light Characteristics

Light Source	6 ultra-high intensity LEDs
Available colours	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
Peak Intensity (cd)	>11 flashing, >4 fixed-on
Visible Range (nm)	>2.4 flashing, >1.5 fixed-on
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	9
Reflector Type	Omni-directional 360° LED Reflectors (US Pat.No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	>250 including fixed-on (user-adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Operating Voltage (v)	3.6
Autonomy (days)	>20 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80° C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	1.4
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	High grade NiMH—Environment Friendly
Battery Capacity (Ah)	8
Nominal Voltage (v)	3.6

Physical Characteristics

Body Material	LEXAN® Polycarbonate—UV stabilised
Lens Material	LEXAN® Polycarbonate—UV stabilised
Lens Diameter (mm/inches)	140 / 5½
Lens Design	External optics with interior flute design
Mounting	6 x 17mm holes on 200mm PCD
Height (mm/inches)	120 / 4¾
Width (mm/inches)	231 / 9 ⅛
Mass (kg/lbs)	1.1 / 2 ⅜
Product Life Expectancy	Up to 12 years

Certification

CE	EN61000-6-3:1977. EN61000-6-1:1997
Quality Assurance	ISO 9001:2000
Waterproof	IP68

Intellectual Property

Patents	US Pat.No. 6,667,582. AU Pat. No. 778,918
Trademarks	Avlite® is a registered trademark of Avlite Systems

Warranty

Full 3 year warranty

Options Available

Hard-wire synchronisation
Voltage-free contact
IR

CE

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