



Solar Powered Airfield Sign Lights Forward Operating Base, Middle East



PROJECT OVERVIEW

Location:	Middle East
Date:	September 2009
Site:	Undisclosed Air Base
Product:	AV-SIGN-20
Application:	Solar powered airfield sign lights for remote air base

BENEFITS

- The use of solar power allows this remote airbase to be illuminated eliminating the need to lay cabling
- Sign lights are suited to the harsh Kuwait environment making them reliable in all weather conditions
- Allows pilots to safely navigate runways, taxiways and apron areas
- Using clean, pollution-free energy from the sun to power the lights offers an eco-friendly lighting solution

"As the airfield lighting tech, I can say that I am impressed with your products thus far. We are using your solar sign lights to light the airfield signs... they are a very positive addition to our runway. I'm very impressed with their quality and effectiveness."

**USAF Electrical Staff
Forward Operating Base, Middle East**

US Air Force Places Third Order for Avlite Solar Powered Airfield Sign Lights

A Forward Operating Base has placed its third order for Avlite solar-powered LED airfield sign lighting systems. The AV-SIGN-20 is being used to externally light taxiway guidance signs, distance remaining signs and directional airfield signage.

To date, more than 100 units of the Avlite solar LED airfield sign lighting systems have been deployed at multiple FOBs providing significant safety, navigational and maintenance benefits to remote air bases.

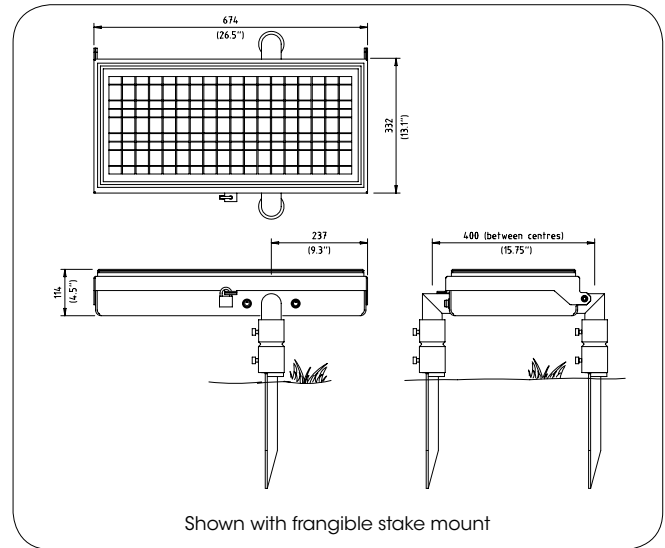
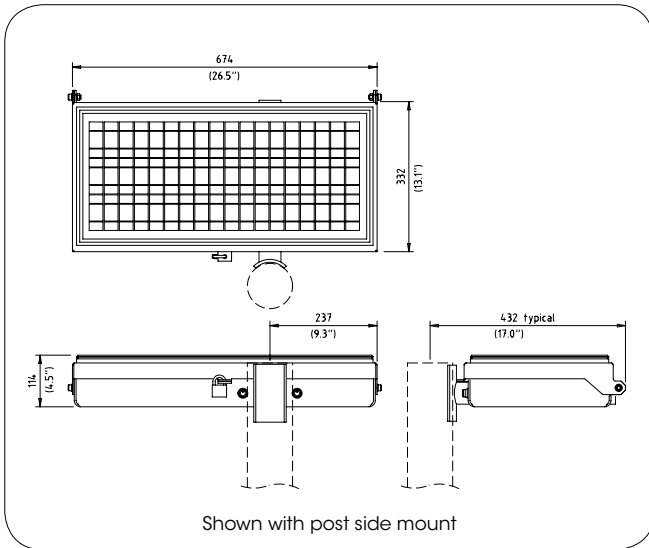
As a self-contained frangible airfield sign lighting system with minimal heat signature, pilots are able to navigate the runways, taxiways and apron areas under night vision goggles (NVG) or unaided eye operating conditions. As a testament to the quality and durability of the Avlite solar LED sign lighting solutions, the signs must operate in the summer during constant heat levels above 55 degrees Celsius.

This Forward Operating Base located in the Middle East has part designated for operations by the US Air Force and its allies who provides combat rescue, theater airlift, aero medical evacuation, air surveillance and control, as well as force protection and support. Avlite with partner Aviation Renewables, work closely with the US Air Force's electrical staff to make this high traffic airfield safer and efficient with Avlite Systems solar airfield lighting solutions.

As the OEM supplier for the US ARMY MOTS program, the Avlite solar airfield lighting is designed to operate to military requirements. With a 3-year warranty, replaceable battery, encrypted radio-control and custom designed aviation optical lens, the Avlite airfield lights are the benchmark in solar airfield lighting. The only aviation manufacturer of complete solar airfield lighting systems for the US Forces, NATO and commercial airports, Avlite continues to develop rugged, reliable, on-time solutions for its customers worldwide.



Solar Powered LED Sign Lights



SPECIFICATIONS •

Light Characteristics

Light Source	1 LED cluster in LEXAN® domed luminaires (standard)
Available Colors	White
Light Divergence (degrees)	120
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (mA)	250mA per light
Circuit Protection	Integrated
Operating Voltage (v)	12
Autonomy (nights)	6
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	20
Solar Module Efficiency (%)	14
Charging Regulation	Regulated

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	18
Nominal Voltage (v)	12

Physical Characteristics

Body Material (Domed Light Source)	LEXAN® Polycarbonate - UV stabilized
Lens Material	LEXAN® Polycarbonate - UV stabilized
Body Material (Power Box)	7-stage powder-coated aluminium
Mounting	Post or stake mount available
Mass (kg/lbs)	9 / 19¾
Product Life Expectancy	Up to 12 years

Certifications

CE	EN61000-6-3:1997, EN61000-6-1:1997
Quality Assurance	ISO9001:2000

Intellectual Property

Trademarks	AVLITE® is a registered trademark of Avlite Systems
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Warranty *

3 years

Options Available

- Mounting assemblies



• Specifications subject to change or variation without notice
* Subject to standard terms and conditions

