



**Avlite**<sup>®</sup>  
www.avlite.com

## AVIATION LIGHTING

# Solar Portable Airfield Lighting System



Avlite Systems is an international designer & manufacturer of complete aviation lighting systems; airfield, heli & obstruction.

We believe technology improves navigation™

## AV-SOLAR-PALS

# Solar Portable Airfield Lighting System



Avlite Systems' Solar Portable Airfield Lighting System (Solar PALS) is a rugged, fully transportable, autonomous lighting system for easy, rapid deployment supporting temporary or long term operations for both civil and defence airfields.

Once deployed, the lighting system can be controlled via a 2.4GHz encrypted mesh network capable of being operated from the tower, ground, or approaching aircraft by a Pilot Activated Lighting Controller (PALC).

### **Solar-powered RF controlled airfield lights**

The Solar PALS trailer contains all airfield lighting and ancillary equipment required to support temporary or sustained operations. The standard configuration is suitable for a 5000ft/1500m runway and includes;

- 52 x RF Controlled Runway Edge Lights (AV426-RF)
- 12 x RF Controlled Threshold Lights (AV426-RF)
- 4 x RF Controlled Runway End Identifier Lights (AV426-RF)
- 24 x RF Controlled Taxiway Edge Lights (AV-70-RF)
- Pilot activated lighting controller (PALC)
- Handheld controller(s)
- Mounting accessories

A range of options are available such as helipad and obstruction lighting, windsock assemblies or additional fixtures for extended runways.

### **Military-grade trailer for transportability with integrated charging system**

The complete Solar PALS is an ideal solution to suit tactical, emergency or permanent client needs.

### **Features**

- All-in-one portable solar airfield lighting system
- Heavy-duty trailer design for transportation and storage
- In-trailer charging system for all lights when in storage
- Complete wireless control of airfield lighting once deployed
- Customisable lighting configurations available to suit various applications
- Optional Infrared (IR) Mode, illumination invisible to the naked eye to support NVG operations

### **Applications**

- Emergency airfield lighting
- Stand-by system in event of power failure
- Military
- Humanitarian aid / medivac
- Resources

### **Compliance**

- Can be supplied to meet:  
International Civil Aviation Organisation (ICAO) Annex 14 emergency lighting photometrics  
or  
FAA VFR & IFR Non Precision Medium Intensity Runway & Taxiway Lighting (MIRLs) photometrics



## Overview

Trailer Components



### Trailer Design

The Solar PALS storage and deployment trailer is specifically designed to withstand the harshest environmental conditions.

The trailer performs over a wide variety of terrains, making it incredibly reliable and durable for both civilian and military applications.



### Integrated Charging

An integrated charging system ensures every light is fully charged in storage for immediate use. Once deployed, lights are charged by their individual solar modules to allow for autonomous operation.



### Trailer Hitches

Avlite's trailers offer a range of customizable options including trailer hitches such as; Standard Ball mount (Civilian) and Pintle Ring also referred to as Military Hitch (Military).



### Tactical Run Flat Tyres

Run-flat tyres are designed to resist the effects of deflation when punctured, and enable the vehicle to continue to be driven in all terrain and combat situations, ensuring mobility and safety to vehicles, civilians or soldiers.



**RF Controlled Runway Edge Light**  
AV-426-RF

### Aviation Light



**RF Controlled Solar Taxiway Light**  
AV-70-RF

### Airfield Lighting Control Options



### Radio Control

The Portable Airfield Lighting System can be controlled by a handheld remote controller on the ground or an integrated PALC via onboard VHF radio

Avlite is dedicated to supporting the Military & General Aviation communities worldwide; our products are designed to provide operational flexibility and improved safety for light aircraft on public use and private airfields.

Avlite Solar Portable Airfield Lighting System pictured here with AV426-RF

Avlite's airfield lighting solutions are easy-to-install and scalable. No infrastructure is required and there is a solution for every budget.

-  **Solar powered green technology**
-  **Modular design, scale when ready**
-  **Easy to install and maintain**
-  **Various control options to match the owner's operational needs**



11 Industrial Drive,  
Somerville VIC 3912  
AUSTRALIA  
t +61(0)3 5977 6128  
f +61(0)3 5977 6124

61 Business Park Drive  
Tilton, New Hampshire 03276  
USA  
t +1 (603) 737 1311  
f +1 (603) 737 1320

[www.avlite.com](http://www.avlite.com)  
[info@avlite.com](mailto:info@avlite.com)