

# Pilot Activated Lighting Control

AV-PALC

## Features

- 8.33 kHz or 25 kHz channel spacing variants available
- Avlite 2.4 GHz RF integration allows for wireless control of Avlite's solar airfield lighting solutions
- Easy to install
- Standard 100Ah battery backup
- Available in 12VDC or universal mains variants
- Configurable auto time-out
- Optional solar power supply

## Certification/Compliance

- Civil Aviation Safety Authority of Australia (CASA) Manual of Standards Part 139 Section 9.3 & Chapter 14
- Designed in compliance with CE



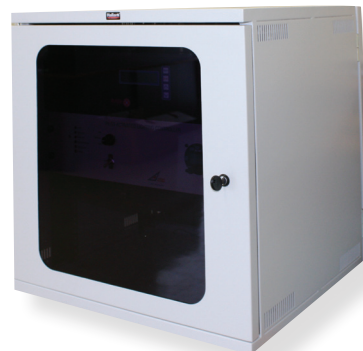
The Avlite Pilot Activated Lighting Control (PALC) has been integrated with the Avlite 2.4 GHz RF wireless network to allow approaching aircraft to activate Avlite's solar lighting on airfields and helipads. The Avlite PALC is ideal for solar lighting applications. The energy stored in the light is used only as needed increasing the overall autonomy of each light.

This lighting control system is specifically designed for use at airfields and helipads where Avlite's solar lighting is installed and on demand lighting is desired. The PALC allows the solar lighting to be off and commanded on only when needed by approaching aircraft. The system is set to a user specified field adjustable time-out period in order to extinguish the lights automatically after landing. Standard 100Ah battery provides backup during power outages.

### How does the AV-PALC work?

Avlite Systems' PALC allows the pilot to control the Avlite lighting system via VHF Radio Air Band. The pilot sets the frequency of the radio to that used by the airfield and operates the system by clicking the Microphone Press To Talk (PTT) button. The Avlite 2.4GHz RF radio controller module will relay the control message from the radio receiver across the RF mesh network to the solar lighting located on the airfield or helipad.

Once the system is activated, the countdown begins after which the lights will automatically turn off, with the length of the countdown being user configurable.



The AV-PALC may be rack mounted within Avlite's optional secure housing or fitted to existing systems

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AV-PALC

SPECIFICATIONS* *	AV-PALC
<b>General Characteristics</b>	
Frequency	Field tuneable 118 – 136MHz
Intensity Selection	Choice of 3 step - defined on purchase
Time out Adjustment	1-60 minutes
<b>Electrical Characteristics</b>	
Voltage Nominal	12VDC or 100-250VAC
Power Consumption (W)	17
Operating Temperature	-20 to 55°C
<b>Optional Solar Characteristics</b>	
Solar Module Type	Multicrystalline
Output (watts)	120
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled
<b>Optional Power Supply</b>	
Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	100
Nominal Voltage (VDC)	12
<b>Physical Characteristics</b>	
Height (mm/inches)	594 / 24
Width (mm/inches)	450 / 18
Depth (mm/inches)	530 / 21
Mass (kg/lbs)	40 / 88
Product Life Expectancy	Up to 10 years
<b>Certifications</b>	
CASA	Complies to CASA MOS Part 139, Section 139 & Chapter 14
Quality Assurance	ISO9001:2008
<b>Intellectual Property</b>	
Trademarks	AVLITE® is a registered trademark of Avlite Systems
<b>Warranty *</b>	1 year warranty
<b>Options Available</b>	• Solar power supply (12VDC only)

HOW TO ORDER	
	AV-PALC
	AV-PALC-[Spacing]-[Type]
<b>Product No.:</b>	_____
<b>Spacing:</b>	_____
	8 = 8.33 kHz
	25 = 25 kHz
<b>Type:</b>	_____
	12 = 12 VDC
	UM = 100-250 VAC
Note: Use -12 when using a Solar Power Supply	

\* Specifications subject to change or variation without notice  
 \* subject to standard terms and conditions  
 † Intensity setting subject to solar availability



Compliant Lighting Models
AV-70
AV-72-RF
AV-425-RF
EAGLE
AV-HL-RF-SOL
AV-FL-RF-SOL
AV-OL-ILAB-12-R-D
AV-OL-ILAB-UM-R-D
AV-WC-L
AV-SIGN-20
AV-SAL-01
AV-ERGL
AV-PAPI



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