

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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SPECIFICATIONS* *

AV-PALC

General Characteristics

Frequency Field tuneable 118 – 136MHz
 Intensity Selection Choice of 3 step - defined on purchase
 Time out Adjustment 1-60 minutes

Electrical Characteristics

Voltage Nominal 12VDC or 100-250VAC
 Power Consumption (W) 17
 Operating Temperature -20 to 55°C

Optional Solar Characteristics

Solar Module Type Multicrystalline
 Output (watts) 120
 Solar Module Efficiency (%) 14
 Charging Regulation Microprocessor controlled

Optional Power Supply

Battery Type SLA (Sealed Lead Acid)
 Battery Capacity (Ah) 100
 Nominal Voltage (VDC) 12

Physical Characteristics

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

Certifications

CASA Complies to CASA MOS Part 139, Section 139 & Chapter 14
 Quality Assurance ISO9001:2008

Intellectual Property

Trademarks AVLITE® is a registered trademark of Avlite Systems

Warranty *

1 year warranty
 • Solar power supply (12VDC only)

Options Available

HOW TO ORDER

AV-PALC

AV-PALC-[Spacing]-[Type]

Product No.: _____

Spacing: _____

8 = 8.33 kHz

25 = 25 kHz

Type: _____

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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