









# Solar Aviation Light

AV-426

The **AV-426** is a next-generation, self-contained solar light specifically designed to survive the harshest environments with minimal ongoing maintenance.

## Key Features:

- Solar-powered, Self-Contained
- FAA or ICAO compliant
- Two chassis heights: Compact (C0) or Standard (C1)
- Updated Switch and External Interface Port (Charge Port)
- Optional RF Control via AvMesh® RF Network

Standard		Optional				
	Switch			IR		



## Solar-powered, Self-Contained

The robust design of the AV-426 self-contained light ensures up to 12 years of reliable service with minimal ongoing maintenance. It is specifically designed to survive the harshest environments, featuring a Grivory top and base as well as an aluminium internal chassis. The top casting is constructed with an integrated handle that helps with any manual handling of the unit.

## FAA or ICAO compliant

The new AV-426 has an all new light head and complies with both FAA and ICAO photometrics, with three step intensities based on regulations.

## AvMesh® RF Network

When the AV-426 is used in conjunction with an RF Network (FCC compliant), a number of options are available such as the ability to use visible and IR LEDs fitted to the same light head or certain fixtures based on light groups.

## Two chassis heights: Compact or Standard

The solar chassis is available in two heights; Compact or Standard, both of which come with upgraded solar panels and a maximum power point tracker (MPPT) to optimize solar input into the 12Ah (Chassis type C0) or 24Ah (Chassis type C1) battery for longer run time.





AV-426

C0

C1

### Light Characteristics

Light Source	LED	
Available Colours	Red, Green, White, Yellow, Blue, Bi-directional Combinations, IR	
Intensity Adjustments	FAA: Low (10%), Medium (30%), High (100%), ICAO: Low (20%), Medium (40%), High (100%)	
Operating time at maximum intensity	56 hours	112 hours
LED Life Expectancy (hours)	> 100,000	

### Electrical Characteristics

Circuit Protection	Integrated	
Operating Voltage	12	
Temperature Range	-40 to 55°C	

### Solar Characteristics

Solar Module Type	Monocrystalline	
Output (Watts)	20 (4 x 5watt)	28 (4 x 7watt)
Charging Regulation	MPPT	

### Power Supply

Battery Type	SLA (Sealed Lead Acid)	
Battery Capacity (Ah)	12	24
Nominal Voltage (V)	12	
Charger	External	
Rated Power	50 W	
Input Voltage	12 VDC	

### Radio Controlled

Frequency	2.4GHz ISM Band	
Range	Up to 1.4km relayed	
Expandability	AvMesh®	
Compliance	FCC / CE	

### Physical Characteristics

Body Material	Composite Polymer - Grivory	
Lens Material	LEXAN® Polycarbonate – UV stabilized	
Lens Diameter (mm/inches)	168 / 6 ¾	
Lens Design	Multi-LED optic	
Mounting	4 hole 200mm bolt pattern	
Height (mm/inches)	406 / 16	503 / 20
Width (mm/inches)	234 / 9.2	
Mass (kg/lbs)	9.1 / 20	14 / 30.85
Service Life	Up to 12 years	

### Environmental Standards

Shock	MIL-STD-202G, Test Condition G, Method 213B	
Vibration	MIL-STD202G, Test Condition B, Method 204	
Wind Speed	Up to 160kph / 100mph	
Humidity	0 to 100%, MIL-STD-810F	

### Compliance

FAA	FAA AC150/5345-46E, L-861, L-861E	
ICAO	ICAO Annex 14, Vol 1, July 2018	
CE	EN61000-6-4:2012, EN61000-6-2:2019	
Quality Assurance	ISO9001:2015	
Waterproof	IP67	
Trademarks	AVLITE® is a registered trademark of Avlite Systems	

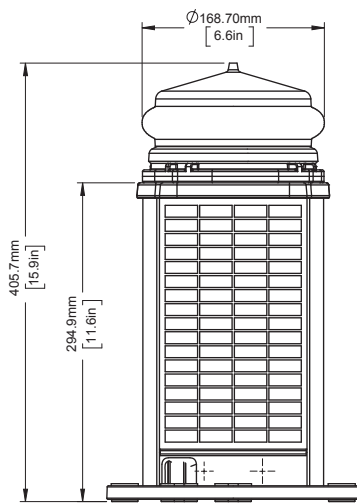
### Other

Warranty *	3 year warranty	
Options Available	Radio Control IR LED Output AC Charging	
Terms and Conditions	Please refer to the light installation manual for further specifications. Warranty Terms and Conditions - <a href="http://www.avlite.com">www.avlite.com</a>	

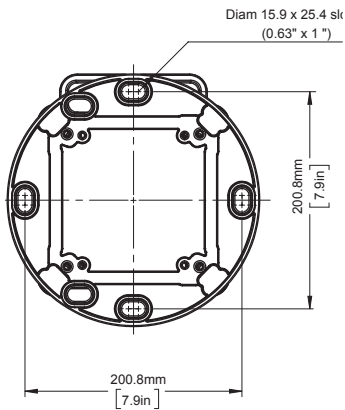
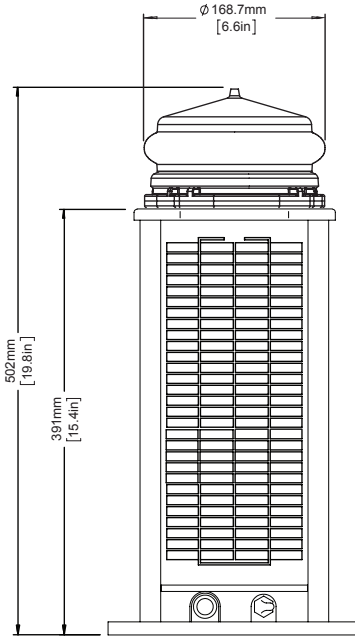


### Technical Illustrations

Compact Chassis - C0



Standard Chassis - C1

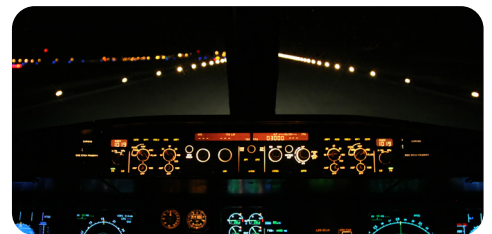


### Ordering This Product

AV-426-[XXXX]-[XX]-[XX]-[XX]



- 1 Product Number**
- 2 Standard**  
ICAO  
861  
861E
- 3 Chassis**  
C0 Compact Chassis  
C1 Standard Chassis
- 4 Base Colour**  
YL Yellow  
DT Desert Tan
- 5 LED Configuration**  
W Omni-directional White  
Y Omni-directional Yellow  
G Omni-directional Green  
R Omni-directional Red  
WY Bi-directional White & Yellow  
WR Bi-directional White & Red  
YR Bi-directional Yellow & Red  
GY Bi-directional Green & Yellow  
RG Bi-directional Red & Green  
GX Uni-directional Green  
RX Uni-directional Red  
RL REIL - 90° Uni-directional, White  
OA Omni-directional Approach, White  
UA Uni-directional Approach, White  
SQ Sequenced Approach, White  
B Omni-directional Taxiway, Blue
- 6 Option Configuration**  
00 Base build  
01 RF  
02 IR  
03 RF and IR



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