

Solar Barricade Light

AV-60-863 Avlite

Compliance and Applications

- FAA L-863R Certified – AC 150/5345-50B

The AV-60-863 is a self-contained, solar powered LED light designed for hassle free operation, suitable for a variety of applications.

Features

- Integrated solar/battery system
- Intertek certified to FAA AC 150/5345-50B, Type L-863R
- Internal high-performance solar module
- Automatic night activation
- External Switch and External Interface Port (EIP) for supplementary battery charging and programming
- User-replaceable battery

Integrated Solar/Battery System

The AV-60-863 has a cost effective integrated solar/battery system which allows true self-sufficient dusk-till-dawn operation in a small form factor. The battery is user-replaceable battery.

Automatic Night Activation

The AV-60-863 utilizes the in-built, high performance solar module to charge the battery during daylight hours as well as an internal photo diode that detects ambient light for automatic night activation.

Versatile Application

Solar fixtures are set and forget in nature, with the lack of wiring meaning the AV-60-863 can be utilized for quick deployment and installation.

IP68 Ingress Rating

Excellent ingress protection is standard, with an AV-60-863 certified to IP68.



Technical Specifications

LIGHT CHARACTERISTICS

LIGHT SOURCE	LED
AVAILABLE COLORS	Red
HORIZONTAL OUTPUT (DEGREES)	360
INTENSITY ADJUSTMENTS	High: 100% (L-863 certified) Medium: 30% Low: 10% Boost: 150%
LED LIFE EXPECTANCY (HOURS)	RED LEDs < 90% after 68,900 hours
MINIMUM PEAK INTENSITY (CD)	As per photometric requirements stated in FAA Advisory Circular 150/5345-50B *Photometrics tested at the HIGH intensity setting

ELECTRICAL CHARACTERISTICS

CIRCUIT PROTECTION	Integrated
TEMPERATURE RANGE	-20°C to +50°C
TRANSPORT AND STORAGE TEMPERATURE RANGE	-20°C to +50°C
CURRENT CONSUMPTION (MA)	High: 32 Medium: 10 Low: 5 Boost: 45

SOLAR CHARACTERISTICS

SOLAR MODULE TYPE	Monocrystalline
OUTPUT (WATTS)	1.4
SOLAR MODULE EFFICIENCY (%)	14
CHARGING REGULATION	Maximum Power Point Tracking (MPPT)
CHARGING CURRENT (MA)	237

POWER SUPPLY

BATTERY TYPE	High grade Nickel Metal Hydride (NiMH)
BATTERY CAPACITY (AH)	B1: 8.6 B2: 17.2
NOMINAL VOLTAGE (V)	3.6
PROGRAMMING/CHARGER	External
EXTERNAL INTERFACE PORT RATED POWER (W)	5
INPUT VOLTAGE (V)	3.6

PHYSICAL CHARACTERISTICS

BODY MATERIAL	UV-stabilized LEXAN® Polycarbonate
BODY COLOR OPTIONS	Aviation Yellow
LENS MATERIAL	UV-stabilized LEXAN® Polycarbonate
LENS DESIGN	Single LED Optic
MOUNTING	6 x 17mm holes on 200mm PCD
HEIGHT (INCHES/MM)	5.12inches/ 130mm
WIDTH (INCHES/MM)	9.09 inches/ 231 mm
MASS (LBS/KG)	B1: 1.187kg B2: 1.563kg
SERVICE LIFE	Up to 12 Years (calculated at 12 hours operation per night)

ENVIRONMENTAL STANDARDS

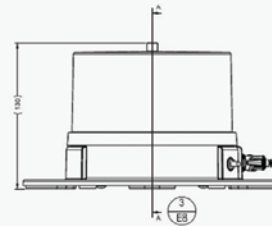
SHOCK	MIL-STD-202G, Test Condition G, Method 213B
VIBRATION	MIL-STD202G, Test Condition B, Method 204
WIND SPEED	Up to 100mph (160kph)
HUMIDITY	0 to 100%, MIL-STD-810F
INGRESS	IP68

COMPLIANCE

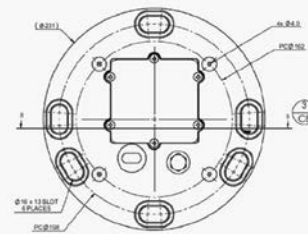
QUALITY ASSURANCE	IISO 9001:2015
FAA	AC 150/5345-50B (L-863R)
WARRANTY	Please refer to the Warranty Section of the Product Manual

TECHNICAL DRAWINGS

SIDE



BASE



CONFIGURATION

MODEL	AV-60-863
CERTIFICATIONS	FAA 863R
LED	Omni-directional Red
BATTERY SIZE	8.6Ah SLA Battery (B1) 17.2Ah SLA Battery (B2)
STANDARD FEATURES	Yellow Body, External Switch, External Interface Port (EIP)

ORDERING THIS PRODUCT

AV-60-863-R-B1-03

AV-60 L863, Red LED Output, 8.6Ah Battery, External Switch, EIP

AV-60-863-R-B2-03

AAV-60 L863, Red LED Output, 17.2Ah Battery, External Switch, EIP