



Flight Light Inc.  
2708 47th Ave.  
Sacramento, California, U.S.A.  
95822-3806

PH (916) 394-2800    FX (916) 394-2809  
TF (800) 806-3548    EM [info@flightlight.com](mailto:info@flightlight.com)

## WCH Series Wind Cone AC and Solar Powered L-806 (Frangible)

### L-806 Wind Cone

#### Compliance

FAA: L-806 AC 150/5345-27  
(Current Edition)

ETL Certified

#### Applications

Provides visual indication of wind direction and velocity at a location on an airfield. L-806 wind cones are used on smaller airfields, heliports and as supplemental wind indicators near runway touchdown areas on large airfields.

#### Key Specifications

- Available externally lighted, internally lighted, or unlighted.
- LED or halogen lamps.
- The LED models feature:
  - 50,000 to 100,000 hour lamp life, virtually maintenance free.
  - Multiple lamp circuits, for improved reliability.
  - 80-90% less power consumption than halogen lamps.
  - A long-life LED obstruction light.
  - Integral power adapter on series-circuit models.
- Incandescent L-810 obstruction light included on halogen-lighted models.

- Size 1 (18" diameter x 8' long) wind sock.
- 1.9 inch diameter steel pole, with frangible coupling at base.
- One piece welded aluminum basket with pre-installed bearings.
- Raincaps protect the bearings from weather.
- May be mounted directly to an L-867 light base, 2 inch NPT base-plate (sold separately).
- The nylon sock is treated for rot, mildew, and water repellency.
- Powder coat painted international orange.



#### Solar Power Supply Option

A Solar Power Supply (SPS) is now available for WCH Series wind cones. Please [click here](#) for details.



External LED Light



Internal Halogen Light



External Halogen Light



Internal LED Light

Visit our web site: [www.flightlight.com](http://www.flightlight.com)



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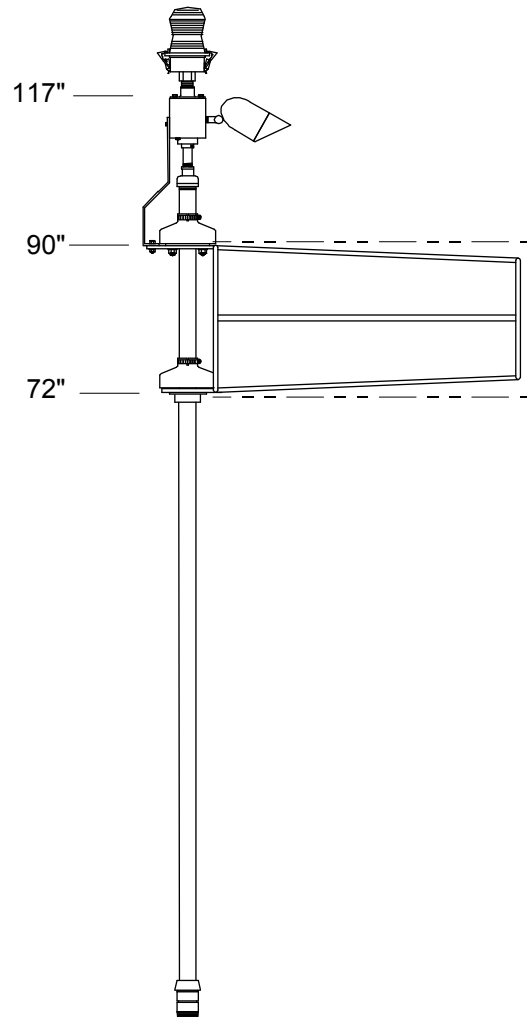
**Ordering Code**

Catalog Number	See Notes	FAA Size	FAA Style	Power Source	Lamp Type	Total VA	Weight (pounds)	Replacement Lamp
L806-S1-UN-NON-ON-N		1	II Unlighted	None	None	0	45	None
L806-S1-EX-120-ON-5		1	I-A External	120 VAC	LED	15	58	9200-0032
L806-S1-EX-66A-ON-5	4	1	I-A External	6.6 AMP	LED	50	57	9200-0034
L806-S1-IN-120-ON-5	2	1	I-B Internal	120 VAC	LED	30	59	9200-0038
L806-S1-EX-120-ON-N		1	I-A External	120 VAC	Halogen	191	55	3400-0122
L806-S1-IN-120-ON-N	2	1	I-B Internal	120 VAC	Halogen	316	57	3400-0100Regent
L806-S1-EX-12-ON-5		1	I-A External	12 VDC	LED	8	57	9200-0033
L806-S1-IN-12-ON-5	2	1	I-B Internal	12 VDC	LED	8	57	9200-0041
L806-S1-IN-66A-ON-5	2,3	1	I-B Internal	6.6 AMP	LED	137	60	9200-0039

- Notes:
1. Power consumption specifications include the L-810 obstruction light.
  2. This FAA Style cannot be ETL certified.
  3. Requires 200 watt L-830 transformer, sold separately.
  4. Requires 100 watt L-830 transformer, sold separately.

**Spare Components**

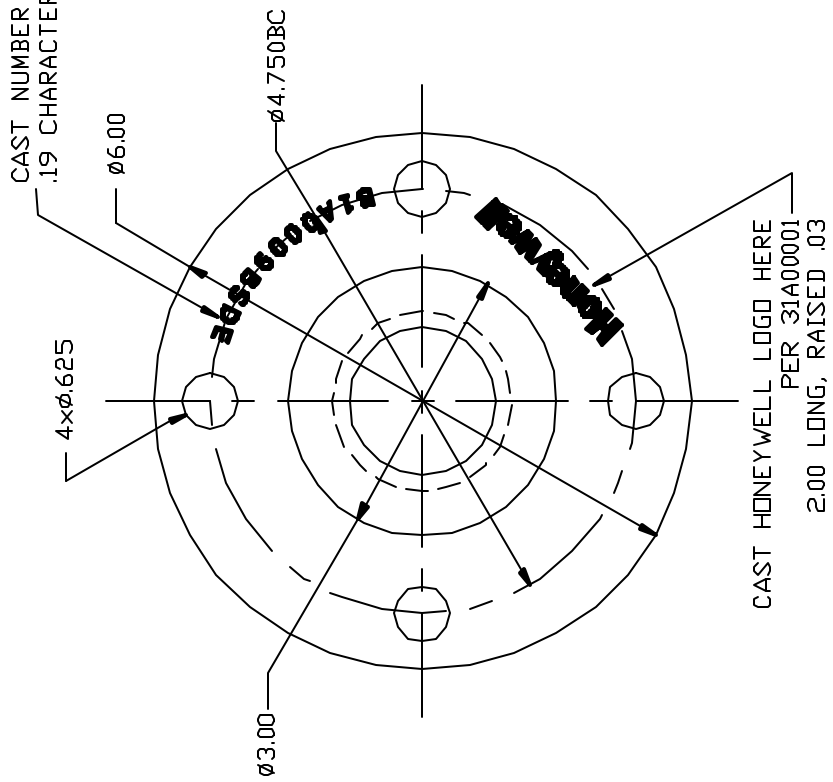
Description	Part Number
Spare Wind Sock (18" dia. x 8 ft) .....	WS-AS1896
Frangible Coupling .....	1800-0025
Lamp, 120V Incandescent Obstruction Light ....	LA-22483-2



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NO.	DESCRIPTION	DATE OF	BY	APPROVED
A	ADDED -J VERSION	7/77		
B	WAS DWG NO. H-687A	10/78		
C	RE-DRAWN	10/10/80	IC	
D	ADDED THD DEPTH	8/9/88	JS	
E	LEGENDS ADDED 15° CONE	10/12/00	CJM	

CAST NUMBER SHOWN HERE  
.19 CHARACTERS, RAISED .03



CAST HONEYWELL LOGO HERE  
PER 31A00001  
2.00 LONG, RAISED .03

PART NO	MAKE FROM	DESCRIPTION
31A000003	MAKE FROM 31	PAINTED & PAINTED YELLOW /A
31A000004	MAKE FROM 31	CHIN COAT, PAINTED & PAINTED ORANGE /A
31A000005	MAKE FROM 31	PAINTED & PAINTED ORANGE /A
31A000006	MAKE FROM 31	WORKED CASTING
31A000007	SEE NOTE /A	RAW CASTING

UNLESS OTHERWISE SPECIFIED, MATERIALS TO BE USED FOR THIS DRAWING ARE:  
 1. ALUMINUM 6061-T6  
 2. STEEL  
 3. BRASS  
 4. COPPER  
 5. INCONEL  
 6. TITANIUM  
 7. MONEL  
 8. 304 STAINLESS STEEL  
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- YELLOW PAINT PER CHANGE 4 TYPED-YL/P, PER-DTD-01/00/00, YELLOW
- INTERNATIONAL ORANGE ALKID ENAMEL PER PER-DTD-01/00/00, NO. 11207, TT-6-488, 3 COATS, 3 MILS.
- ZINC CHROMATE PRIMER TT-6-1727, COMP L, COLOR Y, ONE COAT.
- PAINTS AL AL 48 OR 219, PER QQ-1-001.
- EXCLUDED.

NOTES: UNLESS OTHERWISE SPECIFIED

**Honeywell**  
240 LINDEN PLACE SKE VALLEY CA 92383  
6" FLANGE, ALUM  
REV 1/1 SAVED AS: (DWG)REV.DWG 1 OF 1  
DATE: 10/20/80  
DRAWN BY: 94295  
CHECKED BY: B1A0009SDE1

DATE	BY	APP. BY	DESCRIPTION
10/13/80			
10/15/80			
10/20/80			



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## WCH Series Wind Cone Solar Power Supply

### Applications

The Solar Power Supply (SPS) is a self-contained photovoltaic power source for the WCH Series L-806 and L-807 wind cones.

### Features

- Provides power to ETL-certified wind cones with L-810 obstruction lights (12 VDC LED models).
- Custom designed for the installation site, using 30-year worst case insolation and temperature extremes.
- Operates the wind cone lamp dusk-dawn, controlled by an ETL-certified photocell, to FAA illumination requirements.
- Full wind cone lamp intensity at all times when operating.
- 50 or 135 watt solar panel, with 12-year/90% and 25-year/80% power warranty.
- MPPT charge controller, with custom-programmed temperature compensation.
- On-board indicators for battery, charging and system status.
- 100 to 300 A-H AGM battery, designed for 4000 charge/discharge cycles.
- 10 day nominal battery autonomy.
- Dual-post mount, with frangible couplings, designed to withstand ASCE Exposure C wind loads.
- Temperature range: -45 to +55°C (-49 to +131°F).
- Includes pre-assembled anchor for easy mounting.
- Weather and corrosion resistant construction of powder coated steel and aluminum.
- Solar panel tilts 25-65 degrees in 10 degree steps, factory preset for the installation location.
- Manufactured in the USA.

### Ordering Information

The SPS is designed for operation only with WCH Series wind cones. Each SPS is custom configured for the proper solar panel, battery, temperature compensation and height for the installation location. Please contact Flight Light to configure the correct model for your location.

### Installation Information

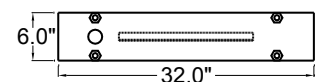
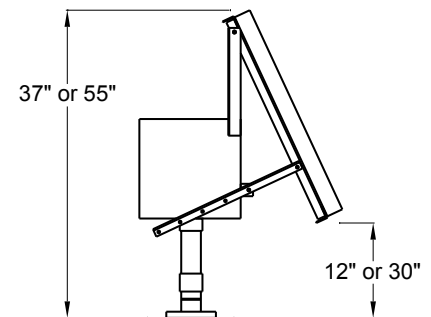
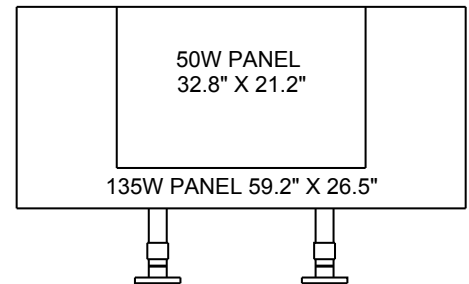
Full solar exposure is critical to the proper operation of the SPS. The solar panel must face due south (in the Northern Hemisphere). Any shading of the solar panel will significantly reduce the energy production. The bottom edge of the solar panel must not be obstructed by snow or vegetation. To prevent shading from the wind sock, the SPS must be installed at least 8 feet from an L-806 wind cone, and at least 12 feet from an L-807 Size 2 wind cone. The SPS is attached to a 4-bolt anchor assembly (included), mounted in a concrete slab. Power is supplied to the wind cone by a cable in liquid-tight conduit through one of the SPS mounting legs.

### Replacement Parts

Part #	Description
7800-0004	Solar Panel, 50 watt
7800-0005	Solar Panel, 135 watt
1300-0081	Battery, PVX-840T
4500-0020	Charge Controller
7800-0006	Photocell
1800-0036	Frangible Coupling
2300-0024	Fuse, 10A 32V

### Shipping Information

Unpackaged Weight: 186-268 lb.  
 Shipping Weight: 266-388 lb.  
 Shipping Volume: 72"L x 48"W x 44"H



**Anchor Assembly Top View**

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