

# SV37 LED Light

STEEL/ALUMINUM



## ***Introduction:***

Congratulations on the purchase of your new weld-in LED light for **STEEL/ALUMINUM** hulled vessels. Underwater Lights® USA, LLC takes pride in providing well designed, high quality and thoroughly tested lights that allow you to “enhance your boating experience”. These lights can be installed in your vessel for aesthetics, to attract fish and/or for security and safety.

## ***General Information:***

The latest commercial grade “COB” High-Density Light Emitting Diode (LED) technology used in this light will provide robust and reliable operation under normal operating conditions when used with the matching Underwater Lights® USA, LLC driver box.

This light is equipped with thermally protected circuitry and can be operated above or below the waterline. Optimum performance and longevity will be achieved when operating underwater.

The main body is designed and tested to act as a cofferdam for added security.

Depending upon water clarity conditions, the light beam can reach up to 30 meters (100 feet).

## ***Safety Information:***

This light must be welded into a STEEL/ALUMINUM hulled vessel in accordance with common ship building practices.

Upon proper installation, this light will become part of the vessels grounding and cathodic protection system.

Always disconnect and lock-out power before working on light.

## ***Care and Maintenance:***

The light should be inspected for moisture every six months by removing the projector lid and inspecting internal components. This can be accomplished while the vessel is in the water

The lights electrical cabling and driver box should be visually inspected for proper operating condition every six months.

Marine growth should be removed from the glass using a soft brush to allow both heat and illumination to exit the light.

## ***Technical Specifications:***

Light source = Instant on high flux density LED array - 14,630 Lumens (Peak Axial Candela 11223) - 7000 Kelvin color temperature - 40,000+ hours life

Glass = Borosilicate glass - 20mm (0.79”) thick - 80mm (3.15”) diameter net aperture

Light Common Body Dimensions = 150mm (5.9”) diameter x 164mm (6.4”) length

Smallest Front Flange Dimensions (STEEL) = 175mm (6.89”) diameter x 49mm (1.9”) length

Smallest Front Flange Dimensions (ALUMINUM) = 175mm (6.89”) diameter x 120mm (4.7”) length

Largest Front Flange Dimensions = 226mm (8.89”) diameter x 436mm (17.2”) length

Construction (STEEL) = 316L stainless steel - Black anodized 5086 marine aluminum alloy

Construction (ALUMINUM) = Bright dip anodized 5086 marine aluminum alloy - Black anodized 5086 marine aluminum alloy

Power supply = See matching Underwater Lights® USA, LLC driver box

## ***Troubleshooting:***

Please contact our Florida technical support staff at 1-954-760-4447 or French technical support staff at +33 (0) 497 21 0296, Monday thru Friday from 8:00 am to 5:00 pm local time.

## ***Warranty:***

Underwater Lights® USA, LLC warrants this light to be free from defects in workmanship and materials for a period of two years from the date of original purchase. Further, misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood and lightning, unauthorized repair or modifications will void said warranty. Should your light prove defective during the warranty period, promptly contact Underwater Lights® USA, LLC for an RMA number and then return the light freight prepaid with the RMA number clearly marked on the outside of the shipping container.

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STEEL/ALUMINUM



## Installation:

This light should be installed at minimum 250-300mm (10-12") below the light load water line with approximately a 20° down angle by qualified/approved personnel using proper tools, welding procedures and materials. An access area of at least 75mm (3") should be left behind the light for servicing and general ventilation.

After selecting a location, cut an appropriate sized hole through the vessel hull. Note: Hole size will be defined by the specific weld-in Front Flange (19) that came with the light. Caution! Check that no electrical wiring, fuel lines, oil lines, water lines etc., pass near or through the intended hole location.

Place the supplied Front Flange (19) into said hole and following common ship building practices, permanently weld-in place. Note: Leave the factory installed block-off disk and protective cap on the supplied Front Flange (19) until final light assembly.

Final light assembly - Remove Front Flange (19) block-off disk, protective cap and clean all surfaces. Install two Glass Gaskets (4) (one gasket on either side of glass), Glass (3), Retaining Flange O-ring (11) and Glass Retaining Flange (2) using eight fasteners (12) tightened in a criss-cross pattern to 9 Nm (7 ft/lbs) using a 5mm allen wrench. Install Main Body Gasket (6) and Main Body (1) with Threaded Adapter (5) into Glass Retaining Flange (2), then tighten Main Body (1) to 40 Nm (30 ft/lbs). Note: Apply anti-seize compound to Main Body (1) threads. Upon making proper electrical connections (see driver box manual), connect Receptacle (14) to Plug (15). Note: Upon completing light installation, it is highly recommended that the Front Flange (19) be coated with antifouling paint.

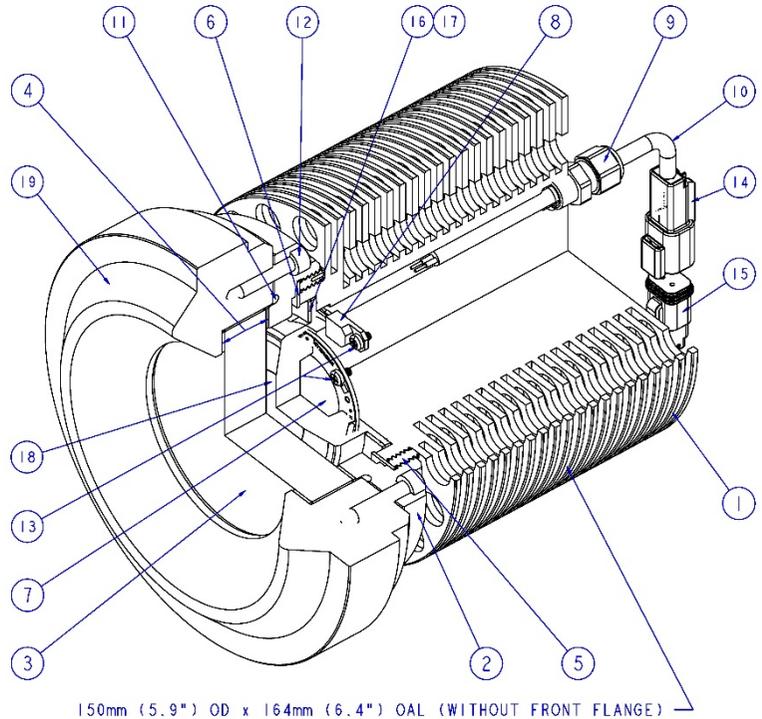
## Serviceable Parts:

This light is fully serviceable and all parts are replaceable. Please contact our technical support staff to discuss your individual needs.

For Glass (3) replacement, disconnect Receptacle (14) from Plug (15), remove Main Body (1), eight fasteners (12), Glass Retaining Flange (2) and Glass Gaskets (4). Upon thoroughly cleaning all surfaces, reverse said procedure to assemble the new Glass (3) and Glass Gaskets (4). Note: Tighten all eight fasteners (12) in a criss-cross pattern to 9 Nm (7 ft/lbs) using a 5mm allen wrench.

**Caution! Never attempt to remove/replace Glass (3) while vessel is in the water.**

MODELS E15_12A25-12G32L, 120/230VAC(STEEL) MODELS E15_10A25-12G32L, 120/230VAC (ALUMINUM)		
BALLOON	PART	DESCRIPTION
1	37521	MAIN BODY / COFFERDAM
2	37002	GLASS RETAINING FLANGE
3	37007	GLASS
4	37008	GLASS GASKET
5	37502	THREADED ADAPTER
6	37504	MAIN BODY GASKET
7	37513	LED ARRAY
8	37524	THERMOSWITCH
9	37508	CABLE STRAIN RELIEF
10	37509	ELECTRICAL CABLE
11	37010	RETAINING FLANGE O-RING
12	37017	M6 x 1.0 x 25LG SST SHCS
13	37510	M3 x 0.5 x 5LG SST PPHS
14	37519	RECEPTACLE ASSEMBLY, 2-WAY
15	37520	PLUG ASSEMBLY, 2-WAY
16	37522	LENSE HOLDER
17	37525	M4 x 0.7 x 8LG SST PPHS
18	37523	LENSE
19	N/A	CALL TECHNICAL SUPPORT FOR APPROPRIATE FRONT FLANGE



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# SV18 Driver Box

120-230VAC



## ***Introduction:***

Congratulations on the purchase of your new thru hull LED light driver box. Underwater Lights® USA, LLC takes pride in providing well designed, high quality and thoroughly tested lights that allow you to “enhance your boating experience”. These lights can be installed in your vessel for aesthetics, to attract fish, for security and safety.

## ***Features Include:***

Latest control technology and electronic component construction to guarantee high levels of performance.

Universal VAC input with short circuit, over current, over voltage and over temperature protections.

Electrical wiring terminal block with VAC input fuse protection.

## ***General Safety Information:***

This driver box is specifically designed for use with matching Underwater Lights® USA, LLC brand lights only.

Always ensure that VAC power is disconnected and locked out before performing driver box installation and/or service.

The driver box should be opened and visually inspected every six months.

Driver box electrical cabling should be visually inspected for proper operating condition every six months.

## ***Technical Specifications:***

Box Dimensions = 260mm (10.2”) long x 160mm (6.3”) wide x 91mm (3.6”) deep - 2.9 kilograms (6.6 pounds)

Box Construction = Gray painted diecast aluminum alloy with polyurethane gasket, IP66/NEMA 4X rated

Driver = 100-277VAC, 50/60 Hz, 1.1-0.45 Ampere input range - 96 Watt output - Minimum operating temperature -30°C (-22°F)

Cable to Driver Box = Marine grade electrical cable, 16/3 stranded copper wire, with as short a length as possible

Cable from Driver Box to Light = Marine grade electrical cable, 18/2 stranded copper wire, 5 meters (16 feet) maximum length

Terminal block fuse = Fast blow 10 Amp cylindrical, 6.3mm diameter x 25mm or 32mm long (0.25” diameter x 1.0” or 1.25” long)

## ***Troubleshooting:***

Please contact our technical support staff in Florida at 1-954-760-4447, Monday to Friday from 8:00 am to 5:00 pm EST.

## ***Warranty:***

Underwater Lights® USA, LLC warrants this ballast box to be free from defects in workmanship and materials for a period of two years from the date of original purchase. Further, misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood and lightning, unauthorized repair or modifications will void said warranty. Should your ballast box prove defective during the warranty period, promptly contact Underwater Lights® USA, LLC for an RMA number and then return the ballast box freight prepaid with the RMA number clearly marked on the outside of the shipping container.

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# SV18 Driver Box

120-230VAC



## Installation:

The driver box should be mounted in a cool, dry, well ventilated and easily accessible location. Attach the driver box to a fixed bulkhead or similar secure structure using appropriate M6 fasteners with adequate space between driver boxes for proper cooling. Note: Whereas the driver box can be placed in any orientation, it is recommended that the cable strain relief connectors face down.

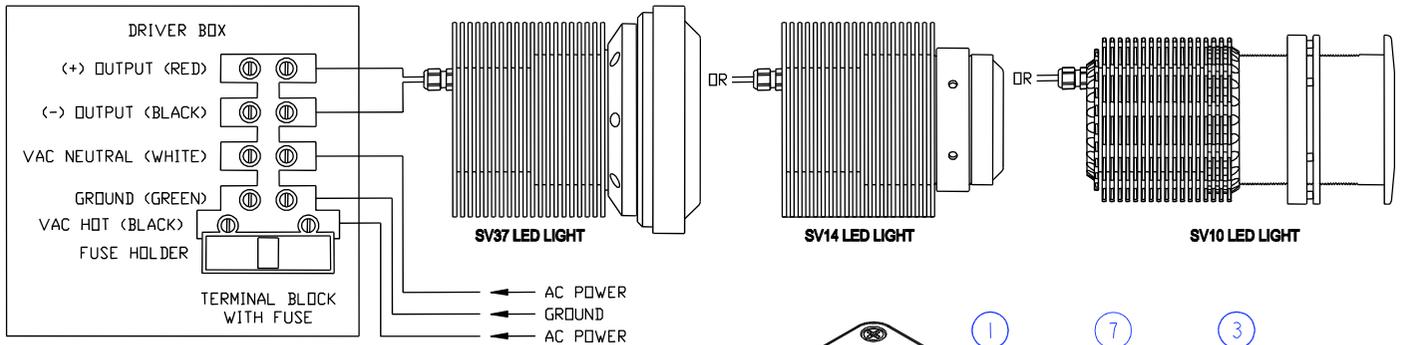
Using marine grade 16/3 cable, run a VAC input line into the driver box and secure by way of one cable strain relief connector.

Run the marine grade 18/2 cable supplied with the thru hull LED light to the driver box and secure by way of one strain relief connector. Caution! Avoid making tight bends and/or passing cables over sharp edges/surfaces.

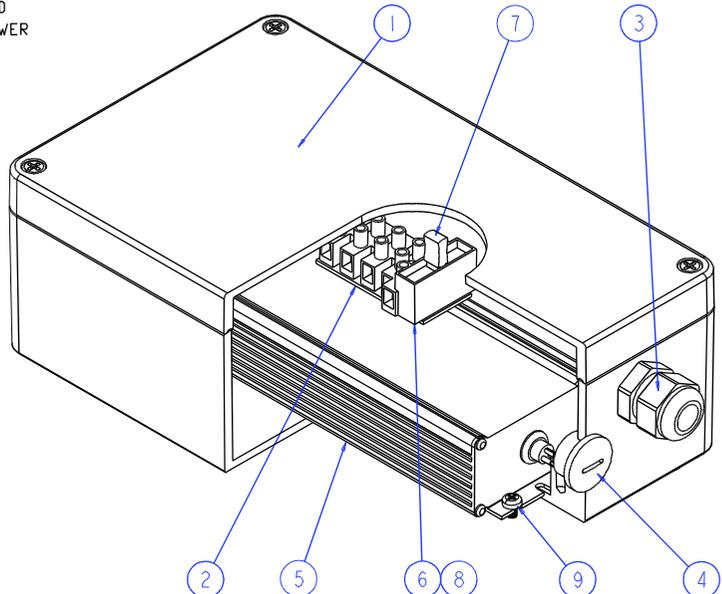
Connect cable leads to the driver box fused terminal block as shown in the wiring diagram below.

## Serviceable Parts:

Upon opening the driver box by unscrewing four captive lid fasteners, replacement of driver or fused terminal block is accomplished by removal and replacement of associated fasteners and wiring. Further, a 10 Amp fuse located in the terminal block may be pulled out and replaced as required. **Caution! Ensure that VAC power is disconnected and locked out before servicing driver box.**



MODEL 12G32L, 120-230VAC		
BALLOON	PART	DESCRIPTION
1	ul-18032	ENCLOSURE
2	ul-18003	TERMINAL BLOCK MOUNT
3	ul-18004	CABLE STRAIN RELIEF
4	ul-18005	BLANKING PLUG
5	ul-18030	DRIVER
6	ul-18008	FUSED TERMINAL BLOCK
7	ul-18013	FAST BLOW FUSE
8	ul-18011	M3.5 x 0.6 x 12LG PPHS
9	ul-18031	M4 x 0.7 x 6LG SST PPHS



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