

DIY LED submersible fish light

I wanted a light to use on some piers I fish and be able to take on boat as well. After looking at some available online, I really didn't want to pay that much and I saw that there were some pretty good ideas out there for the do it yourselfer. So I built one. It's just under 2' long with 600 led's. I had an old plastic container that I used for holding eels and made into a battery box that can strap on a pier piling. A small 12v is all that's needed to run it.



Minus those couplings in the pic that I didn't use, the parts are simple and there are many ways to build it. Amazon has the led light strips and the acrylic tube. In all it can be built for under \$50. Light strip is 16' wrapped around 1" pvc then secured inside clear tube using large washers glued on the 1" pvc pipe ends. I used a plastic epoxy from loctite for the joints. Used a waterproof cable gland on the end cap, epoxy inside and out.



I've submerged it in the bath tub and all seems fine. Gonna attach a little weight to the end so it will sink right and then try it out in the river. I may plasti-dip the ends to cover all joints for extra protection but we'll see.



This is about as tutorialistic as I get. I didnt take any more pics but its pretty straight forward. Always more than one way to do things.

Here is a link to the LED http://www.amazon.com/SUPERNIGHT-Density-Green-Waterproof-Light/dp/B00BSODFOK/ref=sr_1_1?ie=UTF8&qid=1423163273&sr=8-1&keywords=led+green+light+strip

SUPERNIGHT (TM) High Density Green Waterproof Led Light Strip, SMD 3528, 600 LEDs 5 Meter or 16 Feet LED Strip 120 Leds/M
by SUPERNIGHT



Price: \$13.99 & FREE Shipping on orders over \$35. Details

In Stock.

Sold by eBestrade and Fulfilled by Amazon. Gift-wrap available.

Want it tomorrow, June 12? Order within 5 hrs 53 mins and choose One-Day Shipping at checkout. Details

Size: 3528 Waterproof 600 Leds

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- ☐ ☐ ☐ ☐ ☐ ☐

Color: Green

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- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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- Self-adhesive tape on reverse for easy attachment, easy to install
- High density, 600 led. Long life span: 50,000+ hours in average
- Low temperature & low power consumption
- Ultra bright 3528 SMD LED with high intensity and reliability
- Flexible strip for curving around & durable quality

• **Product Description**

- Size: 3528 Waterproof 600 Leds | Color: Green
- Specifications:

- LED Type: High Quality SMD3528 LED

- Length: 16.4FT (5M)
- LED Quantity: 600 LEDs (120Leds/M)
- Color: Green
- Beam angle: 120 degrees
- Input voltage: 12V DC
- Working Temperature: -20°to 50°
- Protection Rate: IP65 Waterproof
- Can be cut 3 LEDs per Unit

link for the tube http://www.amazon.com/Polycarbonate-Tubing-Wall-Clear-Color/dp/B000OMHIHM/ref=pd_sim_sbs_indust_1?ie=UTF8&refRID=1N6VWHG1ZDM94G3WFWER



Polycarbonate Tubing, 1 7/8" ID x 2" OD x 1/16" Wall, Clear Color 24" L

Price: \$8.76 & FREE Shipping on orders over \$35. Details

Product Specifications

Overall Length 24 inches

Length Tolerance +0.000/-0.187 inches

Number of Items 1

Specification for this product family (See all 4 products)

Brand Name	Small Parts
Part Number	TPC-063/32
Material Type	Polycarbonate (PC)

System of Measurement Inch

Color	Clear
Shape	Round
Hardness	ROCKWELL R 73-78
Inside Diameter	1 7/8 inches
Inside Diameter Tolerance	+/-0.020 inches
Outside Diameter	2 inches
Outside Diameter Tolerance	+/-0.020 inches
Wall Thickness	1/16 inches
LowerTemperature Range	-275 Degrees Fahrenheit
Upper Temperature Range	250 Degrees Fahrenheit
Structure Description	Rigid
UNSPSC Code	40183000

cable gland (fits standard extension cord outside diameter) there are other sizes depending on the cable you use. The rest of the parts can be found at the hardware store. Im happy to answer any specific questions on how I did it.

http://www.amazon.com/Amico-Waterproof-Plastic-Glands-Joints/dp/B00841YGX4/ref=sr_1_1?s=industrial&ie=UTF8&qid=1423163616&sr=1-1&keywords=cable+gland

Amico 5 Pcs Waterproof PG11 Black Plastic Cable Glands Joints
by Amico



Price: \$2.09 & FREE Shipping

In Stock.

Ships from and sold by Water & Wood.

Estimated Delivery Date: July 8 - 24 when you choose Standard at checkout.

- Product Name : Cable Gland;Model : PG11;Degree of Protection : IP67 (Water Proof)
- Cable Range : 5-10mm/ 0.19" - 0.39";Thread O.D. : 17.6mm/ 0.69"
- Thread Length : 9mm/ 0.35";Total Size : 23.5 x 37mm/ 0.92" x 1.45" (Max.D*H)
- Material : Plastic;Color : Black
- Weight : 32g;Package Content : 5 x Cable Gland

I just used a broken extension cord that I had. Make sure its the exterior use type. Cant recall the gauge but it had to be something like 14, 16, or 18. Either would be fine in my opinion.

I used my light not too long ago and within 15 minutes a nice bait ball formed and stayed on it for a long time. I hooked it up to a small 12v bat and since the led draws little juice, it lasts a long time. I also found that it took around 14 ounces to hold it on the bottom. battery like this here

UPG UB1280I Sealed Lead Acid Batteries

by UPG



NON-SPILLABLE BATTERY SEALED LEAD-ACID BATTERY		
1280 12V 8Ah		
CONSTANT VOLTAGE CHARGE AT 20°C	VOLTAGE REGULATION	INITIAL CURRENT
STANDBY USE	13.6-13.8V	1.2A
CYCLIC USE	14.5-14.9V	2.4A

- DO NOT SHORTCIRCUIT
- AVOID TOTAL DISCHARGING (DEEP DISCHARGE)
- DO NOT CHARGE IN A SEALED CONTAINER
- REPLACE EVERY 3-5 YEARS
- LIMITED WARRANTY APPLIES
- Warning: Risk of fire, explosion or burns. Do not disassemble or heat above 25°C or incinerate.

MADE IN CHINA

List Price: \$27.95

Price: \$16.99 & FREE Shipping on orders over \$35. Details

You Save: \$10.96 (39%)

Only 4 left in stock (more on the way).

Ships from and sold by Amazon.com. Gift-wrap available.

Want it Monday, June 15? Order within 2 hrs 27 mins and choose One-Day Shipping at checkout. Details

- Used In Ups Backup Systems, Spotlights, Flashlights, Exit Lighting & Other Equipment
- 12V 8 AH .187 tab terminals, UB1280I
- This item is not for sale in Catalina Island
- ub1280i
-
- Product Dimensions: 6 x 2.5 x 4 inches ; 4.7 pounds
- Shipping Weight: 5 pounds

Sealed Lead Acid Battery Charger UPG D1724
by UPG

342 customer reviews

| 34 answered questions

List Price: \$14.95

Price: \$7.99 & FREE Shipping on orders over \$35. Details

You Save: \$6.96 (47%)

In Stock.

Ships from and sold by Amazon.com. Gift-wrap available.

Want it tomorrow, June 13? Order within 7 hrs 38 mins and choose Saturday Delivery at checkout. Details

- For use with sealed lead acid batteries
- 6V/12V Switchable Single-Stage with Alligator Clips
- Alligator clips
- UPG D1724 Sealed Lead Acid Battery Charger

