



# X60L Drop-in Specs

## Specs:

- Powered by Cree XM-L
- Modes: 3 Mode (High, Medium, Low)
- Current: 1.5A +/- 100mA
- Input Voltage: 3-6v
- Supported Cells: 1x18650/17670 Li-ion cells or 2x CR123 Primary Lithium cells. Do NOT use 2x RCR123/16340 Cells.
- Dimensions--Length: 29mm (40mm with spring), Weight: 20g (0.7oz)
- Compatible with: SureFire P, C, Z,



## Features:

- All aluminum for improved heat transfer (compared to brass)
- Precision-machined aluminum OP (orange peel) reflector
- Reverse polarity input protection
- Over-discharge protection ~2.75v (applies only to High and Medium modes)
- Gold-plated spring
- Linear current regulated. No PWM.
- Thermally potted driver

## LED Options and Modes:

- Available in: Cool White T6, Neutral White T5, and Warm White T4
- CRI: CW T6 (65), NW T5 (75), WW T4 (80)
- Lumen Output, OTF\*:
  - T6 Cool White: High (440), Medium (160), Low (10)
  - T5 Neutral White: High (410), Medium (150), Low (10)
  - T4 Warm White: High (380), Medium (140), Low (10)

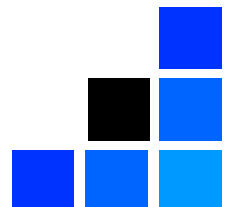
## Runtime\*\*:

- 18650 (2600mAh): High (1.5hrs), Medium (6hrs), Low (100hrs)
- 17670 (1600mAh): High (1.1hrs), Medium (3.5hrs), Low (80hrs)
- 2xCR123 (1400mAh): High (1.4hrs\*\*\*) Medium (4hrs) Low (80hrs)

\*Approximate OTF values. Actual output will vary slightly from unit to unit due to slight LED and driver variances, and will also depend on the overall optical efficiency. For the best results use a high transmittance, anti reflective (AR lens).

\*\*Approximate Runtime values according to the ANSI testing method (100% to 10% light output).

\*\*\*Output drops out of regulation after about 1 hour and decreases linearly to 1.4hrs.





# X60L Drop-in Instructions

## **Basic X60L Installation Instructions:**

To install the X60L drop-in assembly, first unscrew the flashlight head. This is done by twisting the head counter-clock-wise. Once unscrewed, remove the existing drop in module, and set it aside. Remove the X60L from its packaging and place the drop-in in the body of the flashlight. Then tighten down the head of the flashlight. Finally, install either a single 18650 or 17670 Li-ion rechargeable cell, or 2x CR123 lithium primary cells and power on the light.

## **Switching Modes:**

When the light is first powered on, it will always default to high mode. To switch modes, simply turn the light onto high mode then rapidly turn the light off, then back on again (within 1 second). For lights with a forward clicky (or momentary switch) lightly press the switch on to high mode then release and lightly press again to select the desired mode. Once the desired mode is selected, simply twist the tail cap to leave the light in "constant on" mode, or press in the clicky switch all the way (depending on your light model).

## **Warnings:**

Never use 2 rechargeable Li-ion cells such as 2x RCR123/16340's, 18500's, 18650's, 17670's etc. The voltage for 2 fully charged Li-ion cells is too high for the driver and will burn it out. Only use the recommended 1x 17670/18650 or 2x CR123 (primary cells).

If the high mode is used for a long while, the light temperature can reach almost 50°C / 122°F. Be careful when handling the light, if it's been left on for a long period of time. Always ensure that the light is powered off before placing it in a bag or pocket. Leaving the light insulated in a cloth-like material will not allow heat to properly ventilate. Never leave the switched on light unattended for long periods of time, or in the hands of a child.

Never use the X60L drop-in in SureFire G-series flashlights, which are made from a plastic-like material that does not transfer heat well. Using a high powered drop-in in these models may burn out the LED. The X60L is designed for use only in flashlights made from a thermally-conductive metal that can aid in transferring heat away from the drop in module.

## **Recommendations:**

For the best results, we recommend using high quality batteries. EDC Plus offers Redilast 18650 cells which work great in bored SureFire lights and other aftermarket hosts. Single Li-ion cells will provide the best runtime, and driver efficiency, compared to 2x CR123 cells. If you choose to use 2x CR123 primary cells, again we recommend quality cells such as (SureFire, Panasonic, Sanyo, Rayovac, Duracell or Energizer branded cells).

For optimal light output, consider using a quality high transmittance AR (Anti Reflective) coated lens. A quality lens can improve light output by as much as 10%.

