

# EXIN LIGHT

Ex & Industrial Lighting



## IN Series User Manual

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Models: IN3500LB SS, IN1600LB DS, IN120L DS, IN120LB DS, IN120L SS, IN120LB SS



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*The information contained within this Manual is based on the latest information and technical specifications available at the time of printing. EXIN Light reserves the right to make changes to product specifications without notice.*

## 1. Equipment Safety Guidelines

Every year many accidents occur which could have been avoided by a few seconds of thought and adopting a more careful approach when planning a job or simply using equipment. You as the operator can avoid many accidents or even damage to the equipment by observing and following the precautions and instructions contained in this Manual.

- a) Ensure that you have fully read and understood this Manual prior to setting up, installing, operating or charging the equipment.
- b) Never operate this equipment if under the influence of alcohol or drugs.
- c) This equipment is only to be operated by a competent person.
- d) If the ability of this equipment to carry out its intended function is in doubt, then remove it from service and return it to an Authorised Distributor for repair.
- e) When charging from mains power, please ensure that the charging procedure is adhered to, and only charge with a power supply between 100-240V. If supplying power outside this voltage range, it may cause serious injury or damage to the equipment.
- f) Never allow any person to mount, use or charge this equipment until they have developed a thorough understanding of the safety precautions on how it operates.
- g) In some States, Territories or work sites, operator training or equipment documentation may be required. Please check with your local regulatory authority prior to use.

## 2. Introduction

Thank you for purchasing an EXIN Light. The information contained in this manual covers charging, setting up, operation and maintenance of the EXIN Light. This manual needs to be fully read and understood prior to the EXIN Light being charged and used.

The EXIN Light has been developed to help with the lighting needs of the Mining Sector, Hire Industry and Service Providers such as utilities (gas, water and electricity), railway trade people, road maintenance, emergency services, disaster control and recreational use. The EXIN Light removes the need for generators and power extension leads, also reducing set up time and running costs.

When removing the EXIN light from its packaging, also remove the protective plastic bag and plastic sheets covering both lenses and dispose in an environmentally correct manner. Then, follow charging instructions to ensure battery protection and that the battery is in a fully charged position.

## 3. Charging

The battery charge level can be checked at any time by pushing the battery level indicator button located on the rear of the EXIN Light. Holding the button in for at least three seconds, one of three colours will be displayed. Green = charged, Yellow = 50% charged, Red = low battery, charge now. The LED indicator light on the black box of the external charger will display: Red for charging, Green for 90% charged, continue charging for an additional 3 hours to achieve a full recharge.

The EXIN Light can be recharged in three ways:

1. Mains charger suitable for 1-00-240 volt 50-60Hz supply. The charger should only be used indoors and not exposed to the weather.
2. Standard 12 volt vehicle system (plugs into standard vehicle close space/lighter plug).
3. Solar panel charger – the solar panel is an optional extra and is not included as a standard item. (Please refer to SI-SOL-1 operating instructions for charging procedure and information).

**100-240 volt AC:** Insert the external charger into a 3 pin outlet (outlet needs to be on a protected circuit/circuit breaker/RCD). Never charge the unit in a hazardous environment (i.e., a wet environment poses numerous risks including electrocution).

**12 volt DC:** Insert the male plug into a fused 12 volts (negative earthed) power socket. Please check that the socket selected is on a constant supply. Some plugs may be connected to a circuit on the vehicles accessories supply. (This means that the keys would need to be left in the vehicle with the ignition switch in the accessory position and this may constitute an unacceptable risk for both safety and theft).

The Red low battery LED indicator in the light reflector on both sides of the light head will turn on when the battery is approximately 1 hour from discharge (this may vary depending on battery condition), and will sound an audible reminder beep approximately every 15 minutes. Whilst charging the EXIN Light, both sides of the light head can still operate as per normal if required. Full recharge time is 7-8 hours for the IN120L, 1600L & TM120L, 9-10 hours for the IN3500LB, IN1600LB, IN120LB & TM120LB.

To ensure optimum battery life the unit must not be left in the discharged (flat) condition. The battery must be recharged within 48 hours of being discharged to avoid permanent battery damage.

To achieve a speedy charge, ensure that the light is off when recharging. However, if necessary, the EXIN Light can be used while on charge in a safe environment.

Please charge the battery after each use. When the battery is fully charged, turn off the power to stop the charging process by disconnecting the charging cable and place back in the charging cable compartment.

When the EXIN Light is being stored or not being used for long periods at a time, ensure the battery is fully charged before storing and check the charge level at least once every 3 months then charge if necessary.

If the EXIN Light is left on charge for long periods it is advisable to check the light operation approximately every 3 months by switching the Light ON/OFF after disconnecting the charger from the power source, this will ensure the EXIN Light and the power source has had no interruptions during this process. Once this check is completed it may be put back on charge again. It also must be noted that when following these instructions the battery will still operate the light source at the battery age of 12 months however, the battery warranty is not applicable after this 12 month period.

To charge your EXIN Light, ensure that it is placed on a firm level surface. Open the lid of the EXIN Light by pushing the button in the middle of the carry handle. Raise the light head, lift the sealed storage lid located inside the body of the EXIN Light. The storage area contains both chargers. Remove the appropriate lead (100-240 volt AC or 12 volt DC). Place the relevant end of the charging lead into the socket located at the bottom rear of the EXIN Light. This socket has a keyway which allows easy entry for the plug. Turn the circular collar of the plug clockwise and this will lock the plug into place.

## 4. Operating Instructions

When setting up the EXIN Light, ensure that it is placed on a firm level surface. Push the button in the middle of the handle, keep the button pressed in until you choose the lower or full height. You must go to full height before you select the lower height. Ensure that your desired height has been accepted by the locking pins. Once you have released the push button in the middle of the handle you will hear and feel the pins go into place. Remove your finger from the push button and if the handle cannot move up or down you are in the locked position.

### **IN120L DS, IN120LB DS, IN1600LB DS**

The ON/OFF switch (black) and the function switch for rotating each side of the light head and activating the flash mode (red), are located on the underside of the light head. To start, press the black main power switch. This will turn on the front side of the light head (only). The function of the EXIN Light will change with each press of the red switch. The order of the function is as follows: Press the red switch once for the back of the light head (only) to turn on. Press a second (2<sup>nd</sup>) time for both sides (front + back) to turn on. Press a third (3<sup>rd</sup>) time for the front of the light head (only) to flash (also known as SOS mode). Press a fourth (4<sup>th</sup>) time for the back of the light head (only) to flash. Press a fifth (5<sup>th</sup>) time for both sides (front + back) to flash at the same time. The IN120L DS, IN120LB DS, IN1600LB DS will flash at a speed of 1 flash per second. After pressing the red function switch a sixth (6<sup>th</sup>) time you will return to the front light head (only). The red switch will not turn the EXIN Light completely off, you must press the black main power switch for complete shutdown.

### **IN120L SS & IN120LB SS**

The ON/OFF switch (black) and the function switch for activating the flash mode (red) are located on the underside of the light head. To start, press the black main power switch. This will turn on the light head. Press the red function switch once for the light head to enter the flash mode (also known as SOS mode). The IN120L SS & IN120LB SS will flash at a speed of 1 flash per second. Press the red switch again to return to the light only mode. The red switch will not turn the EXIN Light completely off, you must press the black main power switch for complete shutdown.

## **IN3500LB SS**

The ON/OFF switch (black) and the function switch for activating the functions (red) are located on the underside of the light head. To start, press the black main power switch. This will turn on the light head. Press the red function switch once for the light head to operate at 75% light mode, press a second time for 50% light mode. Pressing the function button a third time will enter flashing mode (also known as SOS mode). The IN3500LB SS will flash at a speed of 1 flash per second. Press the red function button a fourth time to return to the constant 100% light mode. The red switch will not turn the EXIN Light completely off, you must press the black main power switch for complete shutdown.

### **Tilting the light head**

The angle of the light head can be adjusted by 60° downwards. This can be achieved by tilting the light head forward (only) by standing at the back of the EXIN Light and pulling the bottom of the back side of the light head towards you. The light head must be put back into position (by standing in front of the EXIN Light and pulling the bottom of the front side of the light head towards you) before the EXIN Light can be closed.

### **Closing the EXIN Light**

To close the EXIN Light, push the button in the middle of the carry handle, hold it in while lowering the lid of the light until the lid meets to top of the body of the EXIN Light. Release the button when you hear and feel the locking pins go into place. It is now locked in the closed position allowing you to carry the fully integrated EXIN Light ready for your next job.

## 5. Battery & LED Performance

The battery life cycle of the EXIN Light is approximately 400 life cycles when charged according to the instructions in this manual. The battery is a lead acid gel style (12 volt, 9Ah or 18Ah) and does not need water or service. The battery is only to be charged in accordance with the instructions provided.

The LED light source has approximately 60,000 life hours when the light is used in accordance with this manual.

### **WARNING:**

- Never use a non-standard charger for the EXIN Light. This may damage the light and void your warranty. Never leave the battery fully discharged as this may permanently damage the battery.
- The battery must be stored in a cool, dry environment. High temperatures or wet environments will increase the self discharge rate. Lead acid batteries must always be kept in a fully charged condition. Check the battery voltage with a good digital volt meter every 3 months and charge if it falls below 12.8 volts.

## 6. Battery Removal

- a) Disconnect all charging cables and ensure that the EXIN Light is on a firm level work surface, indoors or in a weather protected area.
- b) Locate the battery cover plate (bottom rear of the light) and unscrew the 8 screws by hand screw driver (turning anti clockwise). Remove the cover plate and place the screws in a safe location.
- c) Remove the battery and ensure you take note of the battery packaging position. You must return it to the same position; this may need assisted leverage to remove. Also, remove the foam packaging from the top, front and side.
- d) Disconnect the red (positive wire) and black (negative wire). Replace with new battery.
- e) Connect the red wire to the red connection on the battery and the black wire to the black connection.
- f) Ensure that the battery is returned to the original position including foam and replace the cover.
- g) Re-install the 8 screws by hand screw driver (tighten clockwise).
- h) Place the EXIN Light on charge to bring the battery to full charge.
- i) Dispose of the old battery by following the guidelines and laws within your State or Territory.

## 7. LED Replacement

Please consult your local distributor for LED replacement.

## 8. Specifications

	IN MODEL					
	IN120L DS	IN120LB DS	IN1600LB DS	IN3500LB SS	IN120L SS	IN120LB SS
<b>Gross Weight (kg)</b>	9.1	12.3	12.6	12.5	9.3	12.5
<b>Net Weight (kg)</b>	8.1	11.3	11.3	11.2	8	11.2
<b>Lumens</b>	1030 (each side)	1030 (each side)	1600 (each side)	3500	1030	1030
<b>Charge Time (hours)</b>	7-8	9-10	9-10	9-10	7-8	7-8
<b>Max Battery Run Time (hours)</b>	10-12 (one side)	20-24 (one side)	14-16 (one side)	7-8 (at 100%) 14-16 (at 50%)	10-12	20-24
<b>Open Height (mm)</b>	1120					
<b>Closed Height (mm)</b>	580					
<b>Width (mm)</b>	335					
<b>Depth (mm)</b>	220					
<b>Voltage AC</b>	100-240V					
<b>Voltage DC</b>	12/24V					
<b>Light Type</b>	LED					

## 9. Spare Parts

Replacement parts are available from EXIN Light. Please consult your place of purchase.

## 10. Accessories

As standard the EXIN Light comes with a 1.0 metre 100-240 volt (voltage depending on country requirements) charging cable and a 3.0 metre 12-24 volt charging cable. These cables are stored within the body inside the charging cable compartment.

Optional extras which do not come as standard accessories of the EXIN Light are available to purchase separately. These include: additional charging options, safety and protective clip on lenses and comfort back packs for extra mobility. EXIN Light are continually expanding our accessories range, please view our website ([www.exinlight.com](http://www.exinlight.com)) to keep up to date with the latest accessories available for your EXIN Light as some accessories may not have been available at the time of printing this manual.

## 11. Attachments

The attachments mentioned in this manual are to be used for mounting EXIN Lights only, they are not to be used for any other purpose. They are a guide only as each customer's requirements and intended use varies, hence each one is made to order.

All attachments are covered by our normal manufacturer's warranty. The warranty does not cover damage by intentional misuse or neglect.

Our attachments include: Pole Attachment (SI-PA1) suitable for mounting on telegraph poles or any other suitable upright pole like structure. A stabilizing plate (SI-SP1) that will provide extra stability of the EXIN Light. A scaffold attachment (SI-SA1) an adjustable product that will attach to most scaffold type poles (opening dimension 7cm). A tripod (SI-TP1) the heavy duty construction of the tripod allows it to stand 1100mm in height with a leg span of 70cm, weighing 3.2kg (without its base plate). EXIN Light is continually expanding our attachments range, so please view our website ([www.exinlight.com](http://www.exinlight.com)) to keep up to date with the latest attachments available for your EXIN Light as some attachments may not have been available at the time of printing this manual.

## 12. Product Warranty

### **International Product Warranty**

The EXIN Light is covered by a 12 month Limited Warranty (the “EXIN Light Warranty”).

### **Proof of Purchase**

The EXIN Light Warranty can only be claimed with a copy of the dated sales receipt as proof of purchase.

### **The EXIN Light Warranty**

EXIN Light makes every effort to ensure that its products meet high quality and durability standards and warrants to the original Customer/Purchaser of our products that each product be free from defects in materials and workmanship as follows:

The EXIN Light Warranty is a 1 year limited warranty from the time of purchase by the end-user on this EXIN Light product. This Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside of our facilities or our Authorised Service Agents or due to a lack of maintenance or to light tubes or LED's.

To proceed with a Warranty claim; the product must be returned normal freight pre-paid to EXIN Light for examination with proof of purchase and an explanation of the problem.

### **To the extent permissible by law, EXIN Light:**

1. Excludes all implied conditions or warranties and consumer guarantees; and
2. Limits its liability for breach of the EXIN Light Warranty or for breach of any non-excludable warranty, condition or consumer guarantee to:
  - a. Replacement of the defective good; or
  - b. Repair of the defective good.
3. Excludes all liability for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our Products.

## Local Laws

It is the responsibility of the Distributor to ensure that EXIN Light's Products, Packaging and Labelling comply with any laws in the Distributor's jurisdiction that impact on the distribution of the EXIN Light in such jurisdiction. Should such laws impact on such issues as labelling, registration or certification of the product or warranties, it is the responsibility of the Distributor to provide full details of such issues to EXIN Light before orders are placed. Any changes required to EXIN Light's labelling or products will be at the cost of the Distributor.

Date of Warranty Claim: \_\_\_\_\_

Purchaser's Name: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Purchased from (Company Name): \_\_\_\_\_

Product Name: \_\_\_\_\_

Product Model: \_\_\_\_\_

Serial No: \_\_\_\_\_

**NOTES:**