

Operation & Maintenance Manual

KHillmMna Series-V0



1. Brief Introduction

1.1.This series product is a self-contained safety lamp using high power using OSRAM/ CREE LED light source, powered by a rechargeable Li-Ion battery pack and moulded in high impact strength plastic.

2. Application

2.1. Petroleum Industry, Petrochemical Industry, Metallurgical Industry, Power Generation Industry, Power Transmission Industry, Railway Industry, Public Security and Fire Fighting. Etc.
2.2. Portable lamp for Group II Zone 1,2 potentially explosive gases, vapours and mists where the T4 temperature class permits.

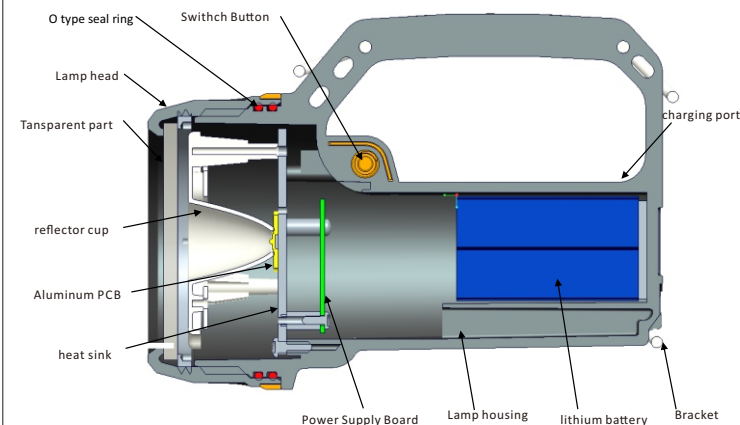
3. Executive standard

- 3.1. IEC 60079-0:2007 Electrical apparatus for explosive gas atmospheres--Part 1: General requirements
- 3.2. IEC 60079-11:2006 Electrical apparatus for explosive gas atmospheres--Part 4: Intrinsic safety "i"
- 3.3. IEC 60598-1:2008 Luminaires-Part 1: General requirements and tests
- 3.4. IEC 60529:2001 Degrees of protection provided by enclosure (IP code)

4. Product Certification

4.1. ATEX, IECEx, CE & RoHS Approved .

5. Structure diagram



6. Use of handlamp

6.1. Use

6.1.1. Instruction of illumination
(To achieve the conversion between high output light, high output work light, floodlight, flood-work light by a switch which controls 2 group of LED source)
First time push the switch, high output light;
Second time push the switch, high output work light (50% brightness of high output);
Third time push the switch, flood light;
Fourth time push the switch, flood-work light
Fifth time push the switch, shut down the lamp; (50% brightness of flood light);
(These functions are pressed based on the previous pressing)

6.1.2. Battery indicator

Press the switch for more than 3 second, release the button when it start to flash, enters into the power display state (the handlamp flash), shutdown automatically when it finished the battery display. The number of flashes indicates power, every flash means a 20% power, 5 times flash means full power.

6.1.3. Lamp charging

When the charger is powered, the indicator is green in the conduction of unloaded. When the charger output terminal connected to the lamp, the indicator turns red. It represents the charging normally. When the battery is full charged, the indicator turns green. (the charge time is 6 hours)

6.1.4. Please cover the charging port by the stopper in order to prevent the dust and foreign matter from entering and affecting the next use.

6.1.5. It is recommended to do a charge-discharge recycle every 6 months if the Lamp is idled for a long time.

6.2. Instructions of lamp support frame



7. Usage caution

- 7. 1. Portable light lack of parts to be used in dangerous place is forbidden.
- 7. 2. Do not charge, repair and disassemble in hazardous area.
- 7. 3. Do not hit the lamp.
- 7. 4. Do not change the structure and spares at will, don't change the circuit during maintenance.
- 7. 5. Ensure the Lens ring is tightened after maintenance.
- 7. 6. Do not use failure portable light in hazardous area.
- 7. 7. Portable light contacts over-charge, over-discharge and short circuit protected.
- 7. 8. Do not stare at operating lamp.

8. Maintenance caution

- 8.1. Routine maintenance.
Clean the portable light regularly.
- 8.2. Routine maintenance caution.
8. 2. 1. Do not clean while charging.
8.2.2. Recharge every six months when in storage.

9. Maintenance parts and spares

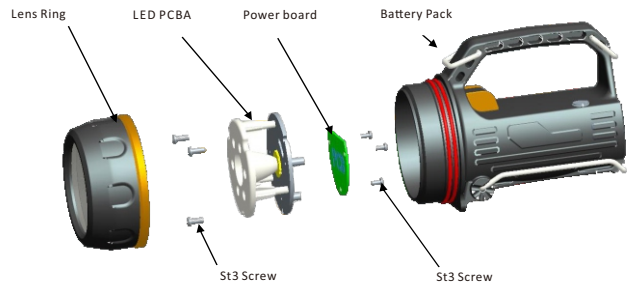
- 9.1. Maintenance steps
 - 9. 1.1. Unscrew the lens ring
 - 9. 1.2. Unscrew 3 screws, take off LED PCBA.
 - 9. 1.3. Take off power board.
 - 9. 1.4. Replace new LED PCBA and power board.
 - 9. 1.5. Assemble the portable light.

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9.2.Optional Parts

No.	Description	Picture	Quantity (pcs/set)	Remark
1	LED PCBA		1	
2	Power board		1	
3	Battery pack		1	With battery

9.3.Analysis and solution

Problem	Analysis	Solution
Fail to work	NO battery	Charge in safe area
	LED PCBA problem	Replace LED PCBA
	Battery problem	Replace battery
Others		Contact KHJ service center

9.4.Maintenance

9.4.1. Repairs only to be carried out in safe area and by competent persons.

9.4.2. Avoid touch the switch during transportation.

9.4.3. Temperature may raising while charging in high temperature area. There is a sealing ring in battery pack. Change the sealing ring in time if it failure

9.5.After Service

After-sales service;

9.5.1.Installation and maintenance must be done according to the instruction.

9.5.2.Any further question,please contact our sales department.