



Mining Cap Lamp Brochure

ON-KL5LM(C)

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1. Characteristics of the ON-KL5LM(C) helmet lamp

ON-KL5LM(C) is the brightest cord cap lamp with low power indication. it adopts the Li-ion battery technology and advanced LED technology with special designed reflector, and MCU control charging system charger.

(1) Super bright

The main light LED of ON-KL5LM(C) is American CREE LED, which can gives more than 150 lumens output, and the lighting degree is 15,000 lux in full lighting time (tested with 1 meter away from the lamp head) .The full charged ON-KL5LM(C) will provide more than 15 hours continuous lighting.

(2) MCU charging system

The charger with aluminum alloy housing and MCU control system to charge the battery much more quickly and safely, and with precondition charging to protect the battery when the battery voltage is too low.

(3) Short-circuit protection

Contained in a sealed battery case, the product has a short-circuit protection, LED light head lamp and anti-static housing which makes it explosion proof, waterproof and dust-proof. The miner's lamp is ATEX Certified for use in explosive atmospheres such as coal mines.

(4) Over-charge and over-discharge protection system

The durable Li-ion battery has an over-charge and over-discharge protection system to protect the battery from over charge or over discharge. And the charger has precondition charging to prevent the battery damaged with high current when the battery voltage is too low. The cap lamp is suitable for operation under harsh mining conditions.

(5) Portability

Small in size, light in weight, ergonomically designed, maintenance free, simple charging, easy operation. The cap lamp has received praise from many miners and major mining companies.

(6) Environmental

The cap lamp is made from environmentally friendly Li-ion battery and other non hazardous materials. The ON-KL5LM(C) is an environmentally friendly product as per ROHS Directive.

2. Technical parameter and specification

No.	item	parameter	unit	remark
1	Rating voltage	3.7	V	
2	Rating capability	7.8	Ah	

3	Lighting duration(main lamp-house)		≥15	H	The real duration is more
4	intensity of illumination(main lamp-house)		≥15000	Lux	1 meter from the lamp
5	LED average current	main lamp-house	400	MA	
		secondary lamp-house	110		
6	Charge protective voltage		4.2	V	
7	Discharge protective voltage		3.0	V	
8	Charging time		5	H	
9	Battery circular life		>1000	Circle	Circular times
10	Weight		0.55	kg	Include the battery
11	Battery case Dimension		97x97x40	mm	Outer maximum dimension

3. Structural parts of ON-KL5LM(C) helmet lamp

A. Head Lamp

B. Battery box

C. Flexible cable



A. Head Lamp

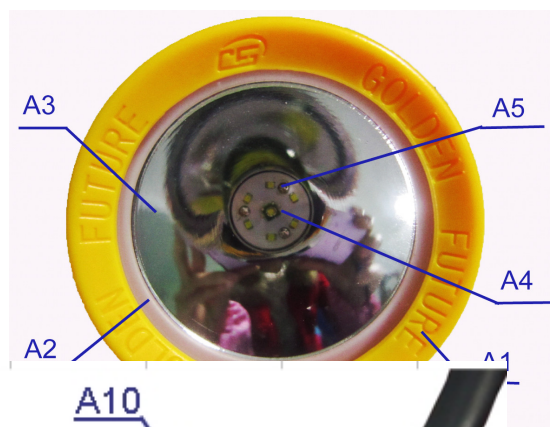
A1. Head lamp cover

A2. Tempered glass

A3. Reflector

A4. LED main light

A5. Auxiliary LED light

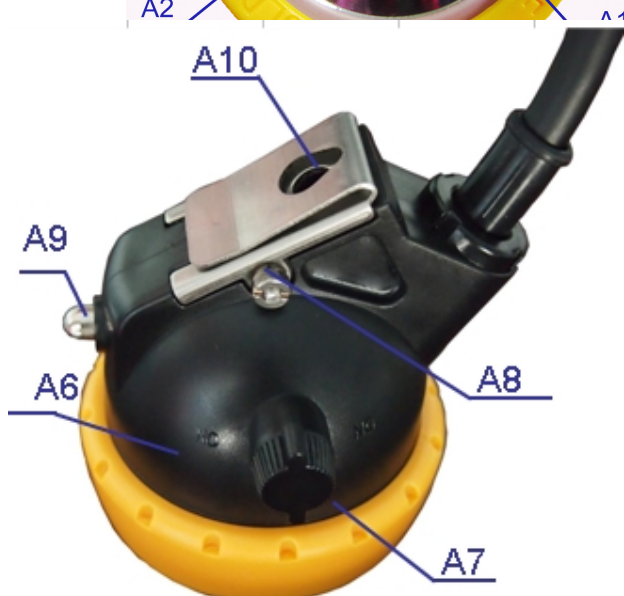


A6. Headlamp shell

A7. Mechanical twist switch

A8. Stainless steel clip

A9. Contact of anode



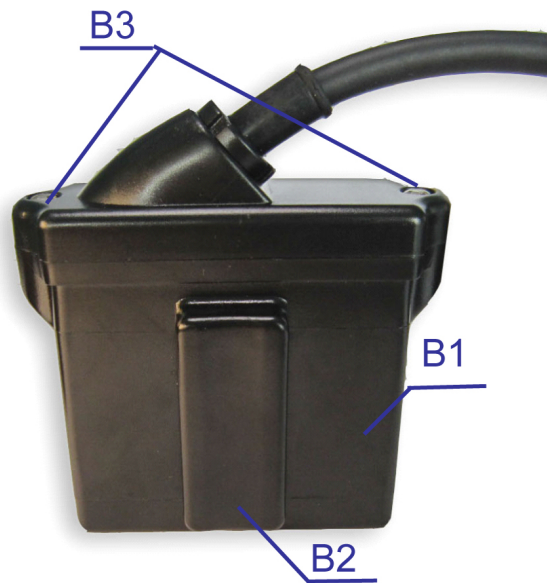
A10. Cathode touch

B. Battery box

B1. Battery box

B2. Belt buckle

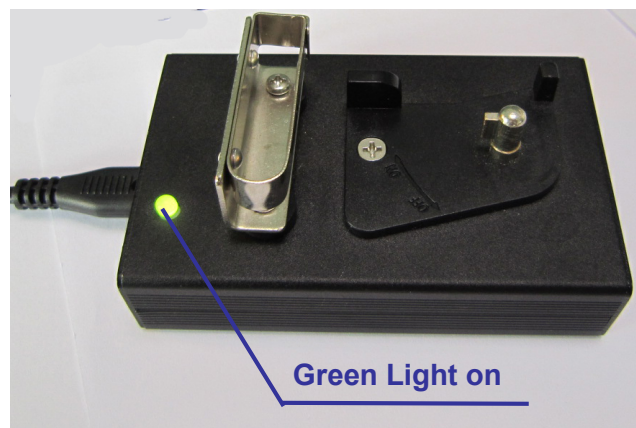
B3. Locking nut



4. Usage Guide

4.1 Charger

- a. Please connect with power then start charging, the charger indicator light will turn green when it is connect with the power.



- b. Put the head lamp into the plug of the charger; turn 180 degrees in clockwise to make the anode firmly. Now the charger indicator light will be in red color, means it is under charging.



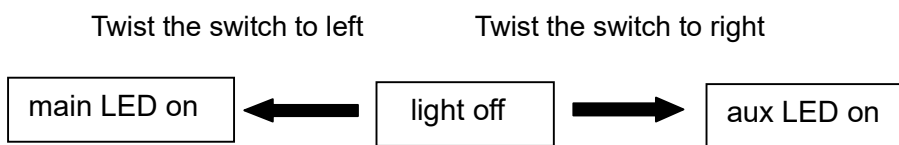
- c. During the charging time, the charger indicator light will turn red, when the lamp is full charged , it'll turn green.

d. After charging, turn the head lamp 180 degrees to the left; remove from the charger. The charging time is about 5 hours.



4.2 Switch

1. The ON-KL5LM(C)
2. switch is mechanical
3. twist switch. It works in the following way



4.3 Capacity of low battery alert

When the power is not enough for one hour lighting, the lamp will flash one time per 6 seconds. In order to remind the user to recharge it or change to auxiliary light and leave from the workplace.

5. Notes

1. When you receive the lamp, please fully charge it before use.
2. Use only our own charger provided with the cap lamp.
3. Since the charger is not equipped with anti-explosion mechanism, it is prohibited to charge the lamp inside the mine.
4. It is prohibited to disassemble the lamp head or to replace the lighting source inside the mine.
5. No shortcut the battery or to disassemble the battery.
6. Dispose used batteries suitably.

6. Package

Each miner lamp is packed in one inner box, 20 pieces are packed in one carton with the size of 46 x 36 x 36 cm with charger.

