

ECO INDUSTRIAL SUPPLIES

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KL6LM Miners Cap Headlight



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1. General information for KL6LM

KL6LM all-in-one wireless inductive charging cap lamp is designed to be widely used in mine, construction site, emergency rescue, and other outdoor activities. Compared with the previous cordless digital cap lamp, KL6LM has been advanced in many aspects. Wireless inductive charging technology, showing more information with OLED display, improved 15000 lux, as well as various lighting steps, all of these innovative improvements provide safety assurance for the people wearing this lamp, no matter what activities they are engage in.



1. Features of KL6LM

●**Reliability:** High impact resistant, water proof and corrosion proof with matte transparent PC housing and bullet proof lens

●**Safety:** High IP grade with All-in-one intrinsic safety design and compact structure; With over-charge & over-discharge protection for battery.

●**Energy saving:** In same brightness, the LED can save 70% energy compared with traditional light source.

●**Economy:** Long lifespan LED; maintenance free. Battery can be used for 1000 circles.

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● **Environmental** : High Performance and green-environmental lithium battery; low self-discharge rate and no memory effect.

● **Portability**: Small size and light weight make it comfortable to wear. Safety assurance, simple charging and easy operation make it win praise from miners and major mining company.

● **Uniqueness**:

Wireless charging technology avoids poor contact of charging which caused by the oxidation of charging port, and achieves better IP grade;



With both AC adaptor and USB port, also can be charged on power bank and note book.

With induction coil inside the lamp, fix the lamp on the charger to be charged through inductive technology

with OLED display to show time, battery balance, working mode and the light's serial number:



- ① Light source: 1W led;
- ② Back-up light: 2pcs 3014 SMD led;
- ③ Lamp switch;
- ④ Display switch;
- ⑤ OLED display: to show lamp serial number, time, battery balance and working model
- ⑥ Mounting clip;
- ⑦ Induction coil;



5. Operation Instruction of KL6LM

- ① Press display switch to turn on/ off OLED display.
(Under charging status, please press display switch twice to turn on OLED display)
- ② Press lamp switch first time for main light high brightness;
Press lamp switch second time for main light half brightness,
Press lamp switch third time for backup light.
- ③ When in any time, press and hold the lamp switch for three seconds, the main light will start flashing.
- ④ Time and serial number setting:
Press both display switch and lamp switch at the same time for three seconds, the lamp turn to time and serial number setting mode. "Setting" will be shown on the right of the second line of OLED display, and the digit of "hour" start flashing at the same time;

Parameters		Unit	Values
Light source	LED power	W	1
	Lighting degree	Lux	15,000
	Lifespan	h	100,000
Battery	Rated capacity	mAh	6600
	Rated voltaeg	V	3.7
	Charging time	h	≤8
	Lifespan	circle	1000
Charger	Input voltage	V	AC100~240
	Output voltage	V	DC 5
	Output current	A	1.5
Lighting time	High bright	h	13
	Half bright		26
	Backup light		100
Lighting distance		m	200
Working temperature		°C	-20°C~40°C
Highest surface temperature		°C	≤50°C
Dimension		mm	90×73×64
Weight (battery included)		g	209
Ex-mark		Exia II CT6 Gb	
IP grade		IP67	

Then press lamp switch to set the number of "hour". After that press display switch, the digit of "minute" start flashing, press lamp switch to set the number for "minute".

Repeat the above steps to set the numbers of weeks, date and lamp's serial number.

It will be out of the setting mode if no operations was done within 5 seconds.

6. Charging for KL6LM

a) Instruction for Charging

- Input voltage for the AC adaptor is 100-240V@50/60HZ, input voltage for the wireless charger is DC5V;
- With built-in charging protection device in the charger, the charger with Red/green indicator, red for charging, and green for full charged.
- Please charge the lamp every two month if the lamp is not in use for long time.

b) Charging Connection

- Refer below 'figure 1' to put the lamp on the charger, and align the line on lamp to the centre line on charger.
- Slide the lamp as the 'close' direction to lock the lamp with charger well, refer 'figure 2'.



Figure 1



Figure 2