

# SMARTLITE-L

LED Caplamps for Mines



## FEATURES

- Safe and Reliable
- Ergonomic, Smaller size and Lighter in weight
- Modular Assembly with Tamper Proof Design
- Intrinsically Safe
- Short Circuit Protector
- Over charge & over discharge cut off
- Low voltage alert in Headpiece
- Constant bright LED Light
- Maintenance Free
- Environment Friendly
- Weatherproof IP65
- Suitable for Methane Environment
- Auxiliary LED for Emergency Escape
- Charging Indicator in Headpiece



# SMARTLITE-L

## LED Caplamp with Lithium Ion Battery battery

SMARTLITE-L LED Caplamp for Mines has DGMS Approval No SA-2/2013.

*This new generation caplamps use Lithium Ion Battery as its power supply and the product is equipped with advanced integrated circuit control system. This portable caplamp provides light in all kinds of hazardous atmospheres including mines. It combines ergonomics, lightness and enhanced illumination and is capable of enduring the hard and challenging working conditions inside the mines.*

### Features:

**A) Safe and Reliable :** Intrinsically Safe and Explosion Proof -meets the relevant International Standards. The Caplamp is equipped with circuit protection which prevents overcharge and short circuit. The short circuit protector also has recovery function. This ensures an absolutely safe and reliable working condition for users.

**B) Ergonomic Design Light Weight :** Smartlite-L lamps have modular assembly with tamperproof design. The battery is innovatively shaped, which perfectly fits the user's waist. Compared with the traditional lead-acid Caplamp weighing 2. 4Kgs the weight of SMARTLITE is only 550gms – reducing the load to be carried by miners and enhancing his comfort and efficiency.

**C) Longer Working Period and Brighter Illumination :** SMARTLITE Caplamps are capable of operating for more than 12 hours after it is fully charged and provide consistent bright illumination of more than 6,000 lux for the entire duration of use. Brighter illumination adds to better working conditions and makes the workplace safer.

**D) Maintenance Free and Environment Friendly :** LiOn Batteries provided in these lamps do not leak acid unlike conventional lead-acid batteries and the lamps require no maintenance, other than periodic charging.

**E) Weatherproof Design :** SMARTLITE-L Caplamps have a high water and dust ingress protection confirming to IP-65 standards.

**F) Suitable for use in Methane Environments :** SMARTLITE-L uses proven and established LiOn battery which is very stable and safe.

**G) Emergency Rescue Feature :** SMARTLITE-L Caplamps have Auxiliary LED for emergency escape light. This LED will give light for more than 24hours on a fully charged battery.

**H) Charging :** SMARTLITE-L Caplamps are to be charged in dedicated Exide Chargers.

### Notice :

Any dismantling or parallel connection is prohibited. In all inquiries please mention the batch number. The firm and its agents / distributors bear no responsibilities in case of improper use of the Caplamp and our liability is limited to the cost of the cap lamp.

### Technical Specifications - Model: SMARTLITE-L

PARAMETERS	Our LiOn Cap Lamp	Remarks	(Comparative) Lead Acid Cap Lamp
1. Battery Voltage	3.7 V	LiOn	4
2. Battery Capacity	5 Ah	More Capacity	16
3. Discharge Time	16 Hours	Greater working period.	8
4. Lux at distance of 1 metre.	>6000 Lux	Many times more light	800
6. LED Bulb Voltage	3.6 V	Standard	4
7. LED Bulb Current	350 mA	Standard	1
8. Led Bulb Life	> 50,000 Hours	Lifelong	400 (Average)
9. Weight of Cap Lamp	0.550 kg	Less weight.	> 2.4 Kg
10. Life of Battery	1100 cycles	Long Life	



## CHARGING ASSESSORIES



### 120 TYPE RACK CHARGER

- No of positions : 15 position x 4 rows x 2 sides (120 positions)
- Charging indication : Light Indicating with "OFF" and "CHARGING" and "FULLY CHARGED" for all 120 positions
- Top Frame : Digital Input Voltage Display
- Output Connections : Built-in-charging clip-key assembly (120 positions)

### SINGLE TYPE CHARGER

- Input : 220 / 240 V AC
- Output : Charging clip-key assembly
- Output Voltage selection : Coarse & Fine Selector Switches
- Indicator : RED to show charging  
GREEN to show fully charged





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