

OLDHAM

Your most dependable companion

GT MINERS' CAP LAMP



- **Extra Power**
- **More Safety**
- **Longer Life**
- **Low Maintenance**
- **Tough Polycarbonate Container**
- **See-through Acid Level**
- **Integral Belt Loop**
- **Centre Take-off Cover**
- **Improved Cable Lock**

OLDHAM MINERS' Caplamps were the first to be introduced in India in 1955 and presently over 4,00,000 numbers are in use. These lamps are manufactured at the Oldham Division of Exide Industries Limited at Shamnagar. The advanced technology GT caplamp is amongst the best in the world and is being used in large number of countries. The product is governed by two BIS licenses and is also approved by DGMS.

THE OLDHAM 'T' battery container is manufactured from transparent polycarbonate, a very strong impact-resistant material. The belt loops are moulded integrally with the back face of the battery container and a stainless steel cover protects the intercell fuse and battery terminals. The positive plate is of tubular construction whereby the active material is held in a woven polyester fibre sleeve. The negative plate grids and the positive plate spines are cast from special alloy which enables the battery to operate with the minimum electrolyte loss. There is provision for topping-up with distilled water (necessary only at very infrequent intervals).

THE HEADPIECE moulding is manufactured from ABS and a toughened glass disc, locked in position by an ABS lens ring protects the two light sources, one main and one auxiliary (optional). The main light source is of prefocus tungsten krypton type (1 A or 0.8 A), in a vacuum deposited reflector, yielding increased light output. It incorporates the standard Oldham key charging contacts, the hidden negative contact protected by a lock barrel behind the cap hook and the exposed positive contact situated at the base of the moulding. The lens ring is locked in position by a special screw which can be covered with wax to deter and detect any unauthorised attempt to open the lamp.

THE CABLE connecting the headpiece to the battery is a short lay type, to give the maximum flexibility without damaging the conductors and is sheathed in modified Nitrile rubber to resist oil and fatty acids.

BATTERY CHARGING equipment is provided for multiples of 1, 10 and 102 lamps. To charge the unit, the headpiece should be fitted over the projecting key on the front of the charger/frame and rotated clockwise through 180° until the bottom stud on the headpiece is in contact with the clip. Charging is fully automatic and ceases when the battery is fully charged.



CAP LAMPS

Standards Compliance IS : 2596
Weight of complete lamp 2.45 Kg

SPECIFICATION HEADPIECE AND CABLE

Weight of headpiece	155g
Headpiece material	ABS
Number of bulbs (Optional)	1 (2)
Nominal voltage of bulbs	4V
Main bulb (krypton) rating	0.75 A
Burning life	600 hrs
Auxiliary bulb rating	0.46 A
Burning life of auxiliary bulb	600 hrs
Type of cable	Flexible twin core short lay EPR insulation
Resistance of cable	0.1 ohm



BATTERY

Weight of battery	2 Kg
Battery case material	Polycarbonate
Battery cover material	Stainless steel
Nominal battery voltage	4V
Capacity of battery	12 Ah (nominal) at 1A to 3.7V
Cell construction	1 tubular positive plate 2 flat negative plates Synthetic absorbent mat plus microporous envelopes
Electrolyte	Sulphuric acid fully charged 1.280 to 1.300
Voltage drop over 10 hour discharge	4.2V - 3.8V
Fuse rating	3 A continuous

APPROVALS

1. Directorate General of Mines Safety (No. 16(16) 88 - Gen/2666) Dt. 03/06/91
2. Bureau of Indian Standards IS : 5679 : 1986 (Licence CM/L - 5265566/0416031)



HEAD OFFICE: Exide Industries Limited, Exide House, 59E Chowringhee Road, Kolkata - 700 020, India
Phone +91 33 2283 2120 / 2133, Fax +91 33 2283 2637/ 2283 2632

CORPORATE MARKETING OFFICE: 6A Hatibagan Road, Entally, Kolkata - 700 014, India
Phone +91 33 2286 6158 / 59, Fax +91 33 2286 6186
visit us at: www.exideindustrialbatteries.com/www.exideind.com

Surajit Mukhopadhyay, Mobile: +91 98306 03986, e-mail: surajitmu@exide.co.in

Tridip Kr. Nag, Mobile: +91 98360 61886, e-mail: tridipkn@exide.co.in

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