



MINERS CAP LAMP SA 1000



FEATURES

The SA 1000 represents a design revolution in miners cap lamps.

Lightweight and built tough

Designed and assembled in Western Australia for the harshest of mining conditions. 70% lighter than traditional lead acid cap lamp batteries.

Maintenance free and spill proof

Unlike traditional lead acid batteries it contains no acid and requires no topping up with acid. It contains no heavy metals like cadmium or lead and is completely sealed, emitting no corrosive or explosive liquid or gas.

Safe for transport by air

Unrestricted for transport by surface or air freight. Cheaper and easier to transport than traditional lead acid cap lamp batteries.

Inbuilt smart charging

Charges directly off traditional lead acid charging racks. No need to purchase expensive new charging equipment. It can be used side by side with traditional lead acid batteries on the same racks. For new sites with no existing racks the charging system can be supplied at a fraction of the cost of traditional charging racks.

Long life

Has a service life up to three times longer than traditional lead acid cap lamp batteries under all conditions.

Greater reliability

The chemistry of the SA 1000 is inherently more reliable than that of traditional cap lamp batteries. Unlike traditional batteries which sulphate when left discharged, the SA 1000 can be left in a charged or a discharged condition for weeks or months without damage. Storage is not an issue. High temperatures do not cause rapid aging. Rough handling and shocks associated with normal mining use do not damage the inner workings of the battery.

Experience less faults. Say goodbye to downtime and warranty issues.

MINERS CAP LAMP

SA 1000

SPECIFICATIONS

Part Number:	1-001
Chemistry:	Nickel Metal Hydride
Nominal Voltage:	3.6V
Nominal Capacity:	14AH
Weight:	Approx 900g (without headpiece)
Size:	length 105mm x width 50mm x height 125mm (without headpiece)
Temperature Range:	Usage: -20° to +70°Celsius Charging: 0°C to +50°C
Lamp BurnTime:	More than 13 hours.
Recharge Time	Approx 7 hours
Service Life:	Up to 800 cycles.
USE:	Hard rock mining

CHARGING INFORMATION:

The SA 1000 has inbuilt, programmable electronics which allow us to change parameters for different conditions and different types of chargers. There is a tri-colour LED on the top of the battery which displays the battery status to the user. There is an approx 8 second time delay before the LED comes on when connected to the rack, or goes off when disconnected from the rack. If you disconnect from the rack and turn the head lamp on when the LED is still on, then the head lamp will blink once when the LED goes out. This is normal.

Normal LED modes:

Orange Charging.
Green Charged.
(The led will be off when the battery is not connected to the charging rack)

Abnormal LED modes:

Red Fault. Either the battery has reached end of service life or needs to be serviced.

Approximately 5 minutes prior to going out the head lamp will dim for a fraction of a second and then continue at full light output. This is to warn the user that the battery is almost flat and should be returned to the charger. The head lamp will blink with increasing frequency until the battery reaches end of discharge. At this point the battery will turn itself off. Once returned to a charger it will turn itself on again. This feature not only increases safety by warning the user the battery is nearly flat, it also prevents the battery from being excessively discharged to a point where the charger won't initiate charge (removes the need for "hospital charge").

For further information contact:

Minelite Pty Ltd
Tom Waldeck Mobile 0408 808 857 Intl +61 408 808 857
Email: unique@minelite.com