



MINERS CAP LAMP SA 1000 LED



FEATURES

The SA 1000 LED is the SA 1000 battery fitted with an LED headpiece.

The feature of the LED is its diffused light which benefits many types of applications. This product is particularly popular where a large pool of light is required. For instance mine service crew, electricians, mine rescue, geologists, visitors and any application where light weight, a high degree of reliability and hands free safety (three points of contact) is paramount.

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

No transport by surface or air freight restrictions. It is cheaper and easier to transport than traditional lead acid caplamp batteries due to its non dangerous goods classification.

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 caplamp batteries under all conditions.

Greater reliability

The chemistry of the SA 1000 is inherently more reliable than that of traditional caplamp 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 CAPLAMP

SA 1000 LED

SPECIFICATIONS

Part Number:	1-003
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 18 hours.
Recharge Time	Approx 7 hours
Service Life:	Up to 800 cycles.

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.

Charging racks should be adjusted to a minimum of 5.1V to properly charge the SA1000 Caplamp.

Normal modes:

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

Abnormal modes:

Red	Fault. Either the battery has reached end of service life or needs to be serviced.
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Approximately 5 minutes prior to going out the light will blink briefly. This is to warn the user that the battery is almost flat and should be returned to the charger. The blink will continue and increase in 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" required by lead acid batteries).

Versions of the SA-1000 built after November 2009 have a new internal design. The unit goes into sleep mode to save battery life and should never need to be "kickstarted" even after months of inactivity on the shelf. The unit also has inbuilt electronics enabling wireless interrogation of the battery (age, serial number, number of cycles etc). The electronics can be upgraded to act as wireless personnel trackers and even pagers inside the mine. Contact Minelite to discuss all of the features available.

For further information contact:

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