

BURN BRITE SERIES 500 LED HEADLIGHT



Amcontrol Burn Brite's Series 500 LED Headlight is designed for use on underground mining machinery used in the mining industry.

Designed for use on underground vehicles the Burn Brite Series 500 LED Headlight incorporates four high power LEDs designed for maximum lamp life and provides a low power robust alternative.

The enclosure and lens assembly is constructed from impact resistant lightweight materials.

Weighing less than 1.3kg the housing is fully corrosion resistant flameproof Ex d design and the enclosure is IP66 rated.

The headlight is one of the first on the market with a non metallic enclosure and is comprised of a clear high impact polycarbonate lens and nylon co-polymer base, multiple entry point wiring locations in DC or AC voltage.

Certifications

IECEX BAS10.0117X

Baseefa 10ATEX0246X

FEATURES

- LED light output exceeds 50W halogen lamp
- Low current demand for the LED light allows for reduced load on alternators and increased number of lights fitted to machines
- Extended lamp life, eliminating the need for globe replacement and low maintenance provides for minimal downtime
- Enclosure body and lens manufactured from light weight, corrosion, UV and impact resistant materials
- Terminals accept up to 3x4mm² conductors for in and through cabling
- Short circuit, under/over voltage, reverse polarity and thermal protection built into the light
- Included is red LED for use as tail light marker
- Detachable mounting brackets can be provided to suit a variety of mounting requirements
- Enclosure is constructed from cool touch polymer components reducing the risk of burn injuries in service
- Conforms to 'Guidelines for Free Steered Vehicles MDG1' requirements - seen from more than 40 metres away (Australia)



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Standards

The electrical apparatus complies with the following standards:

IEC 60079-0: 2007-10

Explosive atmospheres – Part 0: Equipment – General requirements
Edition 5

IEC 60079-1: 2007-04

Explosive atmospheres - Part 1: Equipment protection by flameproof
enclosures “d” Edition 6

Ingress Protection

IP66 - International Protection, dust-tight and protected against
powerful water jets

Temperature

Ambient temperature range -20°C to +40°C

Mounting

The luminaire may be mounted in any orientation. The enclosure
must be rigidly mounted with the holes provided in both the copper
heat sinks/mounting plates, such that they are protected from
mechanical damage

Cable entries

The unit has 6 x 20mm cable entries which are electrically
connected with an internal stud for earth connection

Category

Ex d I Mb IP66 IEC Zone1

I M2 Ex d I Mb IP66 ATEX Zone1

Input

Voltage range 9.6 to 30 VDC, 10-20 VAC 50/60Hz



Current	12V	24V
	DC	AC
Headlight (white)	650mA	675mA
Tail light (red)	80mA	105mA



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