

BURNBRITE

SERIES 500 LED

FLAMEPROOF HEADLIGHT

PRODUCT BROCHURE

OVERVIEW

Incorporating four high power LEDs and designed for maximum lamp life, the light 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 comprises of a clear high impact polycarbonate lens and nylon co-polymer base.

APPLICATIONS

- For Underground Mining & Hazardous Areas
- Suitable for use on all diesel vehicles, electrically powered machinery and lighting in hazardous areas
- Continuous miners and road header machines
- Shuttle cars
- Longwall shearers
- Diesel vehicles
- Feeder breakers
- Roof bolters
- Fixed lighting on conveyors



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
- Includes 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)

CATEGORY


Class I Zone 1
Ex d I Mb IP66

CERTIFICATION

IECEX BAS10.0117X
Baseefa 10ATEX0246X
IECEX ITA 12.0031X



SPECIFICATIONS

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	Class I Zone 1 Ex d I Mb IP66  I M2

INPUT

Voltage range 9.6 to 28.8 V AC or DC.

CURRENT	12V		24V	
	DC	AC	DC	AC
Headlight (white)	650mA	675mA	315mA	430mA
Tail light (red)	80mA	105mA	65mA	75mA

PART NUMBER

143487 LED Headlight FLP