The Northern Light® Polaris cap lamp, consisting of only a headpiece, is specially designed for use in underground mining and tunneling operations.

Polaris uses a high-capacity lithium ion battery and an LED light source, housed in high-impact dust and water resistant plastic.



### **Specifications of the Polaris**

Description
< 12 hours
> 12 hours
500 minimum
170 grams
Single unit, 24-unit module and 48-unit rack; 12V DC model for vehicle connection
AC line voltage range from 120V +/- 10%, 220V +/- 10%, 12 AC input can also be used in case of retrofit to existing racks and transformers
5°C to 35°C (optimum 15°C to 20°C)
0°C to 60°C (optimum 10°C to 20°C)
20,000 hours
20,000 hours
IP 65
Ta = 0°C to 40°C (for IS purposes Ta = 0°C to 60°C, performance not guaranteed)
300mA
IECex and M1, MSHA pending



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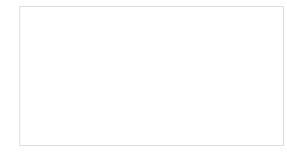
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#### **ABOUT NL TECHNOLOGIES**

NL Technologies (NLT) is a Canadian-owned designer and manufacturer of underground lighting and digital communications solutions for the mining and tunneling industries, with manufacturing/assembly locations in Canada, Australia and Chile along with distributor partners globally. Northern Light® cap lamp systems are designed for maximum durability and comfort, while offering integrated radio-lighting and power-take-off systems as well as RFID and Wi-Fi tracking tag options. In 2009 NLT indroduced the Polaris cordless all-in-one cap lamp which integrates the battery and light source in one enclosure. In 2008, NLT launched the Eclipse cap lamp, which incorporates the latest in LED technology and Li-Ion battery technology to provide a lighter, brighter and a more cost-efficient lighting system. Northern Light Digital™ offers a holistic approach to communications within the underground environment and is based on an open standard network using Wi-Fi protocol and wireless communication technologies to enable a fully connected digital mine. The digital network and software solution supports a myriad of applications including personnel and equipment tracking, two-way communication, VoIP, video and data transfers to meet all the demands of the modern mine.

# **Northern Light®**

# Polaris CAP LAMP NLA001 (with fixed clip)

#### **Accessories for the Polaris**

Accessory	Product Number	
1 Headband	NL8604	
2 Lanyard	NL8602	
3 Adjustable Clip	NL0302	
4 Tear-away Lens Protector	NL7807	





"NLT continues to develop bright ideas"

## **Chargers for the Polaris**

Charger Option	Product Number	
	120V	240V
5 Single Unit	NR5120-01	NR5240-01
6 24 Unit	NR5120-24	NR5240-24
7 48 Unit	NR5120-48	NR5240-48
8 Vehicle Battery Adapter*	NR4502	

\*Single unit charger sold separately.



