

Compact, Rechargeable, Strip LED Light Systems



Compact, Rechargeable
LED Strip Light Unit



Illumination
Mode



Warning Mode



4 Unit Charging Box
Open with Lights



The Compact, Rechargeable, Strip LED Light Systems consist of Robust, Li-ion Rechargeable LED Strip Light Units and powder coated mild steel, lockable rapid charging boxes with individual charging points and charging status indication lights.

**Robust, Compact & Lightweight,
Cost Effective, Highly Efficient
Rechargeable Stope & Development End Lighting
Systems**

**SABS Approved
INTRINSICALLY SAFE**



Description

The Compact, Rechargeable, Strip LED Light units are user friendly and easy to transport and operate. The Light System will effectively illuminate the stope/development area and will improve visibility and the identification of hazardous conditions and situations. It will also indicate unsafe conditions or areas with a Red LED indication/warning light.

The light unit and charging box are modular units that can be repaired by trained personnel on the mine.

The Compact, Rechargeable, Strip LED Light comprises a main White and Red LED lamp delivering 190 candelas of cool-white light in illumination mode and bright red light in warning mode. This lamp draws 820mA from the 6.6 A/Hr Lithium-ion battery giving up to 8 Hours of use before re-charge. The axial beam coverage of the lamp is 360° from 6 radial LED elements.

There is a low power mode, to be used to provide extended illumination in emergency situations, which will extend the operating time by 10x giving an operating time of 80+ Hours.

It also has a "Find Me" feature which strobe the main elements at 1 minute intervals when the lamp is turned off. This may assist in locating equipment misplaced in a dark environment. If un-wanted, this feature may be turned off. Due to the very low duty cycle, extra power used by the "Find Me" strobe has negligible effect on the OFF time battery shelf life.



SANS 60079



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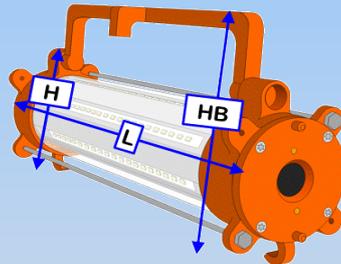
SPECIFICATIONS

Electrical

Main White/Red Lamp Current	=	820mA ± 10%
Dimmed White Lamp Current	=	82 mA ± 10%
Standby "OFF" Current	=	12uA Typical
Battery Type	=	Lithium-ion
Battery Construction	=	3x3 cell array
Battery voltage	=	11.8volts Nominal
Battery Capacity	=	6.6 A/Hrs
Battery protection:		
- Cell balance		
- Under voltage cut-off		
- Over Charge cut-off		
Charge Current	=	3.0 Amps Max
Charge time	=	3 Hrs Max
Charge pins output	=	Diode protected
Charging Voltage	=	12.9 volt
"Find Me" strobe repetition rate	=	50 – 70 Seconds
"Find Me" strobe pulse length	=	30 – 50 Milliseconds

Mechanical

Weight	=	1087g
Dimensions		
(L)Length	-	290mm
(H)Height	-	100mm
(HB)Height Bracket	-	135mm



Case Materials;

Handle	-	Carbon re-enforced nylon
End caps	-	ABS
Optical Tube cover	-	Clear polycarbonate

Environmental Protection

Storage Temperature	=	-10 - +50°C
Operating Temperature	=	-2 - +40°C
Impact / Shock	=	10G 10mSec (max)
Vibration	=	2G – 50Hz 60 minutes (max)
Drop resistance	=	1m (max) to hard surface – all faces.
Water/Dust	=	IP66
Intrinsic Safe Classification	=	Zone 1, Group 1, T5

Compact, Rechargeable, Stope & Development Strip LED Light Systems

SEQUENTIAL MODE OPERATION

From Standby "OFF" mode
Push button (Quick release to "ON" modes)



White Dimmed "ON" mode
Push button



White "HIGH POWER" mode
Push button



RED (Warning) mode
(Pushing the button again will toggle between White high power mode & Red warning mode)
Push and hold button



Standby "OFF" mode



TO SWITCH "FIND ME" FUNCTION ON & OFF

Any "ON" mode
Push and hold button (*Release on Red Flash*)

TO SWITCH RED MODE FLASHING FUNCTION ON & OFF

Standby "OFF" mode
Push and hold button - RED flash once