

EN IEC 60079:-

IECEx Scheme Certification

Cert Number: IECEx BAS 06.0001X

Models: R-50
Ex Ib op is IIC T4 Gb IP67 / Ex Ib op is IIIB T200°C Db
Ex Ib op is I Mb
Temperature Ambient: -40°C to +40°C

Models: R-55
Ex ia op is IIC T4 Ga IP67 / Ex ia op is IIIB T200°C Da
Ex ia op is I Ma
Temperature Ambient: -40°C to +40°C

IEC Standards Applied:
IEC 60079-0:2011, IEC 60079-11:2011,
IEC 60079-28:2015

Ingress Protection Level:
IP67 to IEC 60529:2001

Fig. 2

Fig. 3

Fig. 4

Fig. 6

Fig. 5

R-271

Fig. 7

Fig. 8

Fig. 9

Permitted TP-282 Primary Cassette Cells

4x	AA	Wolf part no. TP-295
T Class	T4	
LR6/AA Alkaline Cells	Duracell Industrial, Duracell Procell, Duracell Plus, Energizer Industrial, Energizer Ultra +	
R6 Zinc Cells	✓	

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

R-50

R-55

Parts List

R-50

- TP-311 Lens Ring
- TP-318 Lens Glass
- TP-329 Polycarbonate Lens Zone 1 & 2
- TP-312 Photoluminescent Lens Ring
- R-257 Heat Sink LED Assembly
- R-223 R-50 Torch Body Assembly Zone 1 & 2
- TP-343 Clip Moulding Zone 1 & 2
- R-287 Cassette Assembly
- R-243 Cassette Circuit Half
- R-271 Battery Pack
- R-488P Lock Screw Cassette (pack of 2)
- TP-448 Base 'O' Ring
- R-291 End Cap Assembly
- TP-282 Primary Cell Cassette
- TP-295 LR6/AA Primary Cell (pack of 4)
- TP-260 Wrist Strap & Ring
- R-620P Output Fuse
- R-640P Input Fuse (pack of 2)

R-55

- TP-311 Lens Ring
- TP-318 Lens Glass
- TP-312 Photoluminescent Lens Ring
- R-257 Heat Sink LED Assembly
- R-225 R-55 Torch Body Assembly Zone 0
- R-337 Clip Moulding Zone 0
- R-287 Cassette Assembly
- R-243 Cassette Circuit Half
- R-271 Battery Pack
- R-488P Lock Screw Cassette (pack of 2)
- TP-448 Base 'O' Ring
- R-291 End Cap Assembly
- TP-282 Primary Cell Cassette
- TP-295 LR6/AA Primary Cell (pack of 4)
- TP-260 Wrist Strap & Ring
- R-620P Output Fuse
- R-640P Input Fuse (pack of 2)

RC-200

RC-212

Fig. 18

GB Wolf Rechargeable Torch Range Operation and Maintenance Instructions Please retain – read before use

EU Declaration of Conformity

The R-50 and R-55 meet all relevant provisions of the 2014/54/EU Explosive Atmosphere (ATEX) Equipment Directive by virtue of the issued EU Type examination certificate, demonstrating compliance with all relevant harmonised standards and essential health and safety requirements.

Wolf Rechargeable Torches are self contained safety torches with 3W LED light sources, moulded in high impact strength plastic and powered by a Lithium Ion battery pack (optional Primary cell cassette also available). The R-50 is approved as Group I, M1 equipment for mining applications. Group I, Category 2 equipment for use in zone 1 & 2 potentially explosive gases, vapours and mists where the T4 temperature class permits and zone 21 & 22 potentially explosive dusts where the T200°C maximum surface temperature and IIB dust group permits.

The R-55 is approved as Group I, M1 equipment for mining applications and Group I, Category 1 equipment for use in zone 0, 1 & 2 potentially explosive gases, vapours and mists where the T4 temperature class permits and zone 20, 21 & 22 potentially explosive dusts where the T200°C maximum surface temperature and IIB dust group permits.

Caution – If fitting Polycarbonate lens, check Ex elsewhere for compatibility.

Approved Certifications:

R-50 Zone 1, 21 I MDH 2GD Ex ib op is I Mb/IC T4 Gb (-40°C to +40°C) Ex ib op is IIIB T200°C Db IP67

R-55 Zone 0, 20 I M1H 1GD Ex ia op is Ia/IC T4 Ga (-40°C to +40°C) Ex ia op is IIIB T200°C Db IP67

Notified Body: Basella Ltd, Rockhead Business Park, Staden Lane, Buxton, SK17 9JN, UK. Notified body number: 1180

EU Type examination certificate: B500004ATEX0009X

'X' condition – Dust layers must be prevented from building up on the torch and it must not be left energised and unattended in Zone 20 areas.

Harmonised standards applied: EN 60079-0:2012 +A11:2013, EN 60079-11:2012, EN 60079-28:2015.

Ingress protection level: IP67 to EN60529:1992.

The R-50, R-55 with RC-200 or RC-212 is certified compliant with the 2014/53/EU EMC Directive to the following harmonised standards BS EN 61000-6-2:2007 +A1:2011 and BS EN 61000-6-2:2015 and the requirements of the Automotive harmonised standard BS EN 50488:2010.

The RC-300 Mains Adaptor is certified compliant with the 2014/53/EU EMC Directive and 2014/53/EU Low Voltage Directive to the following harmonised EMC standards EN 61204-3:2000 Class B, EN 55032:2012 +AC:2013 Class B, EN 55032-2:2014, EN 61000-3-2:2013 and EN 55024-2:2010 and the following harmonised LVD standards EN 60950-1:2006 +A2:2013.

Alex Jackson - Managing Director
Wolf Safety Lamp Company Ltd.

Use of the Wolf Rechargeable Torch

A damaged Wolf Rechargeable torch should be repaired in accordance with these instructions, before putting back into service.

Photobiological safety

R-50 and R-55 are risk group 1 – no photobiological hazard under normal behavioural limitations.

Repairs only to be carried out by competent persons

PRECAUTIONS: See Figs. 1, 2, 3, 4, 5, 6, 10 & 16

Before use: Charge for 3 hours minimum. Ensure torch lens ring and end cap are fully tight at all times. (Fig. 3)

Duration in High Power mode – 3.5 hours
Duration in Low Power mode – 6.5 hours

Deep Discharge Protection: Circuitry will automatically switch the torch off once the battery reaches a pre-determined low voltage.

The torch must be re-charged before further use.

Emergency Lighting Mode: The emergency lighting function switches the torch on when a power failure to the charger occurs.

The torch must be placed in the charger switched 'ON'.

Lamp Replacement: (Fig. 10).

Fuse Replacement: (Figs. 6 & 7).

Cleaning: Use a mild soap and water and soft brush only. Do not immerse.

Storage: Do not store torch or battery below -20°C.

If torch fails to light on:

- A. Ensure torch lens ring and end cap are fully tight at all times (Fig. 3)
- B. Place on charge check for indication, remove and switch on.
- C. Clean charge rivets, check end and cap is fully tightened.
- D. Remove cassette (Fig. 6), inspect contacts, test continuity of the fuses, replace as required (competent personnel only: Fig. 7).

E. Re fit cassette, repeat (A) and switch on.

The R-271 Battery utilises a two cell Lithium Ion system with a life of up to 500 full charge/discharge cycles to 70% original capacity, and incorporates an integral encapsulated battery protection circuit.

Replace the R-271 Battery when the discharge duration is significantly shorter than the durations shown above.

Recharge every six months in storage.

Battery Information: (Fig. 5), Extraction: (Fig. 6), Connections (Fig. 8).

The TP-282 Primary Cell Cassette. An alternative primary cell cartridge is also certified safe for use in the torch. Use only approved primary cells TP-295 for a T4 temperature class (Fig. 9).

Wolf Chargers: RC-200 (12-24V) and RC-212 (12V) A red LED indicator shows power to the charge. Charging is fully managed to eliminate battery memory. Charge is removed once the battery is fully charged, battery voltage is then monitored; a top-up charge is applied as necessary typically applying a trickle charge every 7 days.

Charge Indication: (Fig. 15), Charger Connection Options: (Fig. 18)

- Do not charge in Hazardous Area.
- Charger contacts are low voltage output and short circuit protected.
- Charger operating ambient: +15°C to +25°C.
- Charger ingress protection IP20, protect from dirt and moisture.
- Do not cover ventilation slots.

Warning RC-452: risk of short circuit if polarity incorrect. (See Fig. 18)

Peak Current (during 3hrs charge period) = 1.5A
Peak Current (standby – fully charged) = 0.05A
Peak Current (no torch in charger) = 0.05A
Output Voltage does not exceed 14V (Uo=14V)

Warning:

USE ONLY WOLF CHARGERS WITH THESE PRODUCTS (AS SHOWN IN FIG. 18)

USE ONLY WOLF GENUINE REPLACEMENT PARTS.

The Wolf Safety Lamp Co. Ltd has a policy of continuous product improvement. Changes in design details may be made without prior notice.

OPERATION AND MAINTENANCE INSTRUCTIONS

