

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 23 ATEX 96264X** **Issue 0**

[4] Product: **Explosion-proof headtorch**

[5] Manufacturer: **Shenzhen Goaltek Electric Co., Ltd.**

[6] Address: **1901, Building 1, COFCO Yunjing Plaza,
Intersection of Songbai Road and Chuangwei
Road, Gongming Street, Guangming New
District, Shenzhen, China**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.


[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-35-1:2011 and EN 50303:2000.**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **Ex code, see schedule**



Date of issue:
2023-06-23



Asle Kaastad
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info

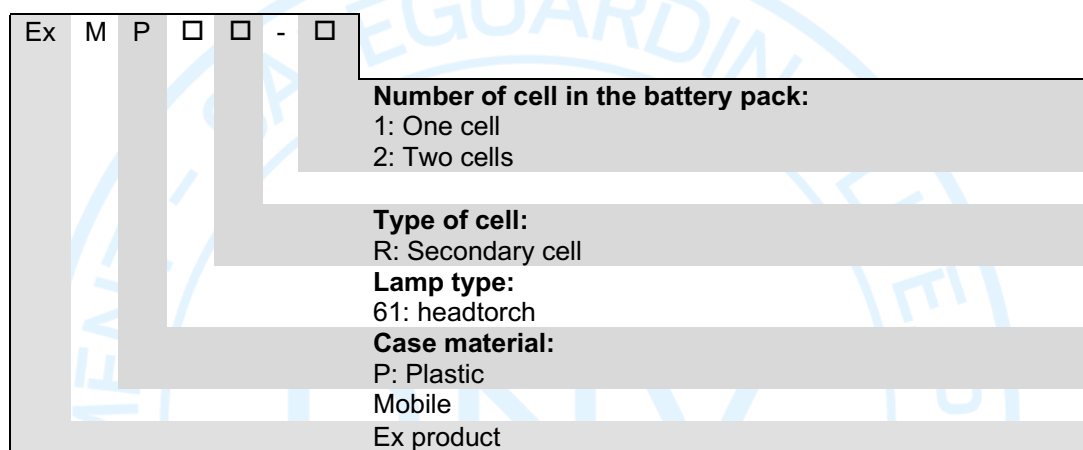
[13] **Schedule**

[14] **EU-Type Examination Certificate No.:** DNV 23 ATEX 96264X Issue 0

[15] **Description of Product**

The ExMP61R Ex headtorch consists of head and body, the head can rotate with some angle around the shaft/hole in the body. The LED light sources are installed inside the head and a battery pack (up to two Lithium Ion secondary cells connected in parallel), several circuit boards are installed inside the body. The product can be charged on the charging base (charger) separately or through an integrated charging system.

Type designation



Ex code

ExMP61R-1:

- ⊕ I M1 Ex ia I Ma EN 60079-35-1
- ⊕ II 1 G Ex ia IIB T4 Ga
- ⊕ II 2 G Ex ib IIC T4 Gb
- ⊕ II 2 D Ex ib IIIB T130°C Db

ExMP61R-2:

- ⊕ II 1 G Ex ia IIB T4 Ga
- ⊕ II 2 G Ex ib IIC T4 Gb
- ⊕ II 2 D Ex ib IIIB T130°C Db

Electrical Data

ExMP61R-1:

Um (for charging): 5 V d.c.
 Rated voltage of battery pack: 3.6 V d.c.
 Rated capacity of battery pack: 3350 mAh

ExMP61R-2:

Um (for charging): 5 V d.c.
 Rated voltage of battery pack: 3.6 V d.c.
 Rated capacity of battery pack: 6700 mAh

Degrees of protection (IP Code)

IP66, IP67 (1 m, 30 min)

Ambient temperature:

-40°C to +55°C

Routine tests

None

[16] **Report No.:** 2023-9485, Rev. 00
Project No.: PRJN-506015

[17] **Specific Conditions of Use**

- Do not charge the product in hazardous location.
- The charger shall be SELV or PELV certified with output voltage of maximum 5 V d.c..
- Do not disassemble the product or replace the battery pack in hazardous location.
- Use only respective replaceable battery pack for below products:

| Product type | Battery pack |
|--------------|---------------|
| ExMP61R-1 | 18650-1S1P-03 |
| ExMP61R-2 | 18650-1S2P-01 |

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

[19] **Drawings and documents**

As listed in confidential report 2023-9485.

[20] **Certificate History**

| Issue | Description | Issue date | Report no. |
|-------|----------------|------------|--------------------|
| 0 | Original issue | 2023-06-23 | 2023-9485, Rev. 00 |

END OF CERTIFICATE