

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2277 Rev. 0**

[4]

Product: **Headlight, Model ISHD32**

[5]

Manufacturer: **Eveready Battery Co. Inc.**

[6]

Address: **533 Maryville University Drive, P.O. Box 411460, St. Louis, MO 63141 USA**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to 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 report no. **4789164095.2.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013
EN 50303: 2000**

**EN 60079-11:2012
EN 60079-28:2015**

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

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

 **I M1/II 1G Ex ia op is I/IC T4 Ma/Ga**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2020-02-28

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2277 Rev. 0

[13]

[14]

[15] Description of Product

The Model ISHD32 is an intrinsically safe portable LED headlight powered by three series-connected "AAA" alkaline cells. The device contains two printed circuit boards which are enclosed within an IP 67 rated non-metallic housing.

Performance testing

Temperature range

The ambient temperature range is -20 °C to +40 °C.

Electrical data

Intrinsically safe specifications:

Model ISHD32 is powered by three Energizer E92 or EN92 size "AAA" alkaline cells only.

Routine tests

None

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

None

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Model ISHD32 has in addition passed the tests for Ingress Protection to IP 67 in accordance with EN60529:1991+A1:2000+A2:2013.

The trade name Energizer Manufacturing, Inc. and trademark

Energizer.

will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 19.0093** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-28

Applicant: **Eveready Battery Co. Inc.**
533 Maryville University Drive
PO Box 411460
St. Louis, MO 63141
United States of America

Equipment: **4789164095.2.1**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia", Optical Radiation "op is"**

Marking: Ex ia op is I/IIC T4 Ma/Ga
-20°C through +40°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2020-02-28

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





IECEX Certificate of Conformity

Certificate No.: **IECEX UL 19.0093**

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Date of issue: 2020-02-28

Issue No: 0

Manufacturer: **Eveready Battery Co. Inc.**
533 Maryville University Drive
PO Box 411460
St. Louis, MO 63141
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[US/UL/ExTR19.0105/00](#)

Quality Assessment Report:

[US/UL/QAR10.0006/08](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 19.0093**

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Date of issue: 2020-02-28

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model ISHD32 is an intrinsically safe portable LED headlight powered by three series-connected "AAA" alkaline cells. The device contains two printed circuit boards which are enclosed within an IP 67 rated non-metallic housing.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[Annex_to_IECEX_UL_19.0093_Issue_0.pdf](#)



IECEX Certificate of Conformity

Certificate No.: IECEX UL 19.0093

Issue No.: 0

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PARAMETERS RELATING TO THE SAFETY

The device uses only three Energizer 1.5V E92 or EN92 "AAA" Alkaline batteries connected in series.

MARKING

Marking has to be readable and indelible; it has to include the following indications:



DEMKO 19 ATEX 2277
IECEX UL 19.0093
Ex Ia op Is I/IC T4 Ma/Ga
MADE IN CHINA

MODEL : ISHD32

I M1/II 1G



Energizer Manufacturing, Inc.
533 MARYVILLE
UNIVERSITY DRIVE
ST. LOUIS MO63141



Only as to Intrinsic Safety for use in hazardous locations.

Class I,II,III Div 1,2 Groups A,B,C,D,E,F&G, Operating Temp. Class T4.

WARNING - TO REDUCE THE RISK OF EXPLOSION, DO NOT MIX FRESH BATTERIES WITH USED BATTERIES, OR MIX BATTERIES FROM DIFFERENT MANUFACTURERS.

WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

AVERTISSEMENT: LA SUBSTITUTION DES COMPOSANTS PEUT NUIRE À LA SÉCURITÉ INTRINSÈQUE.

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

AVERTISSEMENT - NE PAS OUVRIR EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE

WARNING - USE ONLY Energizer E92 or EN92 BATTERY.

AVERTISSEMENT - UTILISER UNIQUEMENT DES ACCUMULATEURS Energizer E92 or EN92