



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 IMQ 21.0014X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2023-02-03) Issue 0 (2021-12-21)
Date of Issue:	2024-07-24		
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District Wenzhou City, Zhejiang Province 325024 China		
Equipment:	Portable Multi-function Explosion-proof LED Lamp, mod. BW6610B		
Optional accessory:			
Type of Protection:	Ex db; Ex eb; Ex mb; Ex tb		
Marking:	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Mr. Mauro Casari

Position:

IMQ ExCB Manager

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

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Via Quintiliano 43
20138 Milano
Italy





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Certificate No.: **IECEx IMQ 21.0014X**

Page 2 of 4

Date of issue: 2024-07-24

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Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No.2, GangTeng Road, YongXing Subdistrict, LongWan District
WenZhou City, ZheJiang Province 325024
China

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

[IT/IMQ/ExTR21.0014/01](#)

[IT/IMQ/ExTR21.0014/02](#)

Quality Assessment Report:

[NL/CNEX/QAR23.0001/01](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx IMQ 21.0014X**

Page 3 of 4

Date of issue: 2024-07-24

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BW6610B power enclosure and switch enclosure are made of polycarbonate, light source enclosure is made of aluminium and the light transmitting part is toughened glass. LED source is not convergent and cannot be converted into convergent by transparent part. Transparent part gives a significant attenuation of irradiance. IEC 60079-28 is not applicable. The power cavity is Ex eb and Ex tb, the light source cavity is Ex db and Ex tb, the switch cavity is Ex db and Ex tb. The batteries are in the power cavity which is protected by Ex mb circuit.

LED power: 13W

Rated ambient temperature range: from -20°C to +55°C

Protection degree: IP66

SPECIFIC CONDITIONS OF USE: YES as shown below:

Charge Service ambient temperature : from 0°C to +40°C

Discharge Service ambient temperature : from -20°C to +55°C

Warnings:

- WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- WARNING – DO NOT CHARGE IN A HAZARDOUS AREA
- WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.



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Certificate No.: **IECEx IMQ 21.0014X**

Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

Added details in ExTR related to:

- reference to ISH and COR
- included in cover sheet routine test according to Ex m concept (IEC 60079-18)
- details related to clearances/creepages of connections and details related to encapsulant thickness
- National differences section not included in ExTR package

Issue 2

- address change
- QAR change to NL/CNEX/QAR23.0001
- IEC 60079-31:2022 ed. 3.0 updating