



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 TUR 19.0062X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2021-02-03)
Date of Issue:	2025-09-24		
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District Wenzhou City, Zhejiang Province 325024 China		
Equipment:	PORTABLE EXPLOSION-PROOF SEARCHLIGHT, Model BW7101A/B		
Optional accessory:			
Type of Protection:	Equipment protection by flameproof enclosures "db", Equipment protection by intrinsic safety "ib" and Equipment dust ignition protection by enclosure "tb"		
Marking:	Ex db ib IIC T6 Gb Ex ib tb IIIC T80°C Db IP68 (-20°C ≤ Ta ≤ +55°C)		

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Yang Wang

Position:

Assigned Certifier

Signature:
(for printed version)

Date:
(for printed version)

2025-09-24

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Date of issue: 2025-09-24

Issue No: 1

Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District
Wenzhou City, Zhejiang Province 325024
China

Manufacturing locations: **Zhejiang Tormin Electrical Co., Ltd.**
No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District
Wenzhou City, Zhejiang Province 325024
China

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

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
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 Reports:

DE/TUR/ExTR19.0062/00

DE/TUR/ExTR19.0062/01

Quality Assessment Report:

NL/CNEX/QAR23.0001/02



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

PORTABLE EXPLOSION-PROOF SEARCHLIGHT

Model: BW7101A/B

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Do not charge the battery in hazardous location.
2. The flameproof joints are not intended to be repaired.
3. Read the instruction before use.



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Equipment (continued):

BW7101A/B PORTABLE EXPLOSION-PROOF SEARCHLIGHT (hereinafter referred to as the searchlight) is an explosion-proof hand light. The search light used an aluminium enclosure with glass for light transmitting. The type of protection of the search light includes 'db' 'ib' and 'tb'.

The search light certified for gas group IIA, IIB and IIC, and temperature class T6. It can be used for flammable gas or vapor and air to form explosive mixture zone 1, zone 2 area, and zone 21 and 22 areas with combustible dust and may occur simultaneously or respectively explosive gas and combustible powder dust in hazardous area.

There is a flameproof enclosure with type of protection "db" or "tb" for the equipment, and there is a electrical switch in a IP20 enclosure with type of protection "ib". There is safety barrier circuit in the flameproof enclosure. A bushing used on the enclosure connect the safety barrier circuit and the electrical switch.

The Search light can be used in ambient temperature: -20°C ~ +55°C

Refer to attachment for more information about this equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update the manufacturer's address.

Annex:

[DE-IECEx_TUR_19.0062X_1_Attachment_2025-09-24.pdf](#)



Attachment to Certificate
IECEX TUR 19.0062 X
Revision 1

Attachment to Certificate IECEX TUR 19.0062 X

Device: **PORTABLE EXPLOSION-PROOF SEARCHLIGHT**
Model:BW7101A/B

Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**

Address: **No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District,
Wenzhou City, Zhejiang Province 325024 China.**

General product information:

Subject and type

PORTABLE EXPLOSION-PROOF SEARCHLIGHT,Model:BW7101A/B

Description for equipment

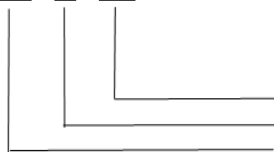
BW7101A/B PORTABLE EXPLOSION-PROOF SEARCHLIGHT (hereinafter referred to as the searchlight) is an explosion-proof hand light. The search light used an aluminium enclosure with glass for light transmitting. The type of protection of the search light includes 'db' 'ib' and 'tb'.

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There is a flameproof enclosure with type of protection "db" or "tb" for the equipment, and there is a electrical switch in a IP20 enclosure with type of protection "ib". There is safety barrier circuit in the flameproof enclosure. A bushing used on the enclosure connect the safety barrier circuit and the electrical switch.

The description of type code:

BW ☐ A/B



Battery number: A: 4 batteries series B: 6 batteries series
Design code: 7101
Portable explosion proof lamp

Technical Parameters:

Electrical parameters:

Parameter type	Parameter values
Charge voltage (V)	DC26.5 (6 series) DC17.5 (4 series)
Battery capacity(mAh)	2600
Battery voltage(V)	DC14.8 (4 batteries series) DC22.2 (6 batteries series)
Rated power(W)	9(3×3)
Working time (hours)	>6



Attachment to Certificate
IECEX TUR 19.0062 X
Revision 1

Charging time (hours)	>6
Ingress Protection level	IP68 (2m water depth)
Dimensions (mm)	Φ67×140
Weight (kg)	0.9

Temperature parameters:

Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq 55^{\circ}\text{C}$

Others parameters:

Atmosphere pressure: 80kPa ~ 110kPa

Relative humidity: no more than 95% (+25°C)

Routine test for manufacturer:

Overpressure test is needed on enclosure of the product according to Clause 16.6 of IEC 60079-1:2014. The static pressures to be applied not less than 1.27MPa at least 10 Seconds.