



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 CML 24.0117X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-11-06

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

Equipment: **Explosion-proof Emergency Box BXP01**

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Dust-tight enclosure "t"**

Marking: **Ex db IIC T6 Gb**
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

D R Stubbings

Position:

Technical Consultant

Signature:
(for printed version)

Date:
(for printed version)

2024-11-06

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District
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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 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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:

GB/CML/ExTR24.0214/00

Quality Assessment Report:

NL/CNEX/QAR23.0001/01



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Explosion-proof Emergency Box BXP01

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex

Annex:

[Certificate Annex IECEx CML 24.0117X Issue 0.pdf](#)

Annexe to: IECEx CML 24.0117X Issue 0
Apparatus: Explosion-proof Emergency Box BXP01
Applicant: Zhejiang Tormin Electrical Co., Ltd



Description

BXP01 series Explosion-proof emergency box can be used in environment with presence of explosive gas belonging to group IIC and dust belonging to group IIIC.

The emergency box is manufactured according flameproof and dust-tight protection types. O-rings in each joint surface make it applicable in dust atmospheres. The flameproof enclosure consists of enclosure and upper cover, both of which are made of aluminum alloy.

In order to wire the equipment with external devices the equipment includes certified cable glands, when one or more holes are not used these have to be properly sealed.

The emergency box can be supplied complete with cable glands and/or plugs as part of the equipment. Alternatively third-parties certified cable glands or plugs can be used and these have to comply with type of protection Ex db IIC Gb/ Ex tb IIIC Db.

A inverter power supply consisting of an emergency drive circuit board and a battery pack is provided inside the Ex d enclosure. The battery pack includes batteries and protection circuit battery back. The batteries are equipped with four CMICR18650F8 (2600mAh, Nominal voltage: 3.7V) cells connected in series and each cell is connected to a shunt diode to prevent reverse charging.

Degrees of protection provided by enclosure, according to IEC 60529 and IEC 60079-0 is IP66.

The equipment is designed for an operating temperature range of: -25°C to +55°C.

Electrical Data for BXP01

Input voltage: 90~264V AC,

Rated voltage: 110V AC, 120V AC, 127V AC, 220V AC, 230V AC, 240V AC,

Rated frequency: 50/60Hz, Rate power: max 40W,

Batteries specifications: 2600mAh, 14.8V,

Cell: type CMICR18650F, 2600mAh, Nominal voltage: 3.7V.

Nomenclature for model BXP 01

BXP - explosion proof emergency box

01 - Design code

Notes:

- IECEx EUT 17.0012X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by IECEx EUT 17.0012X.
- Where IECEx EUT 17.0012X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.



Certificate Annex IECEx
Version: 10.0 Approval: Approved



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Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK



Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Each unit shall withstand an overpressure test according to IEC60079-1 clause 16.1. The static overpressure test of Ex d chamber is not less than 14.2 BAR.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

1. When all cable entries are provided with stopping plug with protection level no less than Ex db IIC Gb/ Ex tb IIIC Db products, The thread specification of entry are M20 1.5, or M25 1.5, or NPT1/2, or NPT3/4; which complies with the requirements marked on the instruction manual. The operator should follow the BXP01 Series Explosion-proof Emergency Box Instruction Manual.
2. Repair of the threaded joints must be made in compliance with the specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 4 of IEC60079-1:2014.
3. The entries shall be equipped with ATEX/IECEx certified cable glands with a compatible mode of protection for the intended use.



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