



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 EUT 17.0012X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2017-12-13)
Status:	Current	Issue No: 1	
Date of Issue:	2019-12-19		
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No.35 Qingjiang Road, High-tech District, Wenzhou, Zhejiang, China 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:

Dionisio Bucchieri

Position:

Head of IECEx Certification Body

Signature:
(for printed version)

Date:

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:

Eurofins Product Testing Italy S.r.l.
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Italy

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Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No.35 Qingjiang Road, High-tech District, Wenzhou, Zhejiang, China
China

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

[CN/CQM/ExTR17.0005/00](#)

[IT/EUT/ExTR17.0019/00](#)

Quality Assessment Report:

[CN/CNE/QAR19.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 ÷ +55°C.

Warnings:

WARNING - DO NOT OPEN WHEN ENERGIZED

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

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

Routine test:

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: YES as shown below:

The flameproof joints are not intended to be repaired



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
QAR Reference has been updated