



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 CQM 11.0022X** Page 1 of 4 Certificate history:
Issue 0 (2011-10-11)

Status: **Current** Issue No: 1

Date of Issue: 2020-04-15

Applicant: **Warom Technology Incorporated Company**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Equipment: **Explosion-proof junction boxes Type BHD51-*/***

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Dust ignition protection by enclosures "t"**

Marking: **Ex db II C T6 Gb / Ex tb III C T80°C Db**
Tamb: -60°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

2020. 4. 15

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:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Manufacturer: **Warom Technology Incorporated Company**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Additional
manufacturing
locations: **Warom Technology Mena Fzco**
Plot No.S31223, Jebel Ali Free Zone
Dubai 263667
United Arab Emirates

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 60079-1:2014-06 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/ExTR11.0028/00](#)

[CN/CQM/ExTR11.0028/01](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The series BHD51-*/* explosion-proof junction boxes are comprised of a body and a cover, both are manufactured from aluminium alloy. A terminal assembly is installed inside the enclosure. There are up to 4 NPT or metric threaded holes for entries on the body. Only suitably certified cable glands and blanking plugs can be used. The degree of protection by the enclosure is IP66. The specification of threaded holes in the wall of enclosure include M20×1.5, M25×1.5, NPT½, NPT¾.

Nomenclature

BHD51-*/*

BHD51 - Explosion-proof junction boxes; 1st *- Direction of cable entries: A, B,C,D,E; 2nd *- Thread: NPT thread (NPT), Metric thread (M)

Rating

Rated voltage: Max.690V AC 50/60Hz Max. 500V DC

Rated current: ≤20A

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only the suitably certified cable glands can be used for fixing cables. The unused holes must be closed with suitably certified stopping plugs.
2. When cleaning, wipe with wet non-fiber cloth only to avoid static.
3. Only use cables suitable for 80 °C.
4. The flameproof joint cannot be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The standards IEC60079-0:2007, IEC60079-1: 2007, IEC60079-31:2008 are updated to IEC 60079-0 : 2017, IEC 60079-1 : 2014, IEC 60079-31 : 2013.
2. The rated voltage is changed from Max. AC500V to Max.690V AC 50/60Hz Max. 500V DC.
3. The ambient temperature is changed from $-60^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ to $-60^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$.
4. The material of the nameplate is changed into metallic.
5. The size groove of the body is changed slightly.
6. G thread cable entry holes are removed.
7. 1.5 times reference pressure is replaced by 4 time reference pressure during the type overpressure test.