



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 15.0047X** Page 1 of 4 Certificate history:
Issue 0 (2015-09-29)

Status: **Current** Issue No: 1

Date of Issue: 2020-02-29

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

Equipment: **Explosion-proof LED lightings BDD95- * - ****

Optional accessory:

Type of Protection: **Ex "db", "eb", "tb", "op is"**

Marking: **Ex db eb op is IIC 67°C (T6) ... 107°C (T4) Gb**
Ex tb op is III C T62°C ... T102°C Db

Type	Temperature classification			
	-40°C≤Ta≤+40°C	-40°C≤Ta≤+40°C	-40°C≤Ta≤+55°C	-40°C≤Ta≤+55°C
	Gas	Dust	Gas	Dust
BDD95-160-160K	92°C (T5)	T87°C	107°C (T4)	T102°C
BDD95-160-120K	72°C (T6)	T67°C	87°C (T5)	T82°C
BDD95-90-90K	87°C (T5)	T82°C	102°C (T4)	T97°C
BDD95-90-60K BDD95-90-30K	67°C (T6)	T62°C	82°C (T6)	T77°C

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

2020.02.29

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 Compan**
No.555, Baoqian Road, Jiading District, Shanghai, 201808
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 60079-0:2017 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 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[CN/CQM/ExTR15.0065/00](#)

[CN/CQM/ExTR15.0065/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The BDD95 series explosion-proof LED lightings include type BDD95-160 and type BDD95-90 enclosure, both include a light source compartment and a power compartment with type of protection "db" "tb" and a connection compartment with type of protection "eb" "tb". The degree of protection by the enclosure is IP66. The enclosure of the light source compartment is composed of a shell body and a enclosure ring cemented with a glass, the glass is pressed by a pressing ring. The enclosure of LED power compartment is composed of a shell cover, a shell body and a power module inside. There is a terminal inside the power compartment. The wires go through the light source compartment and power compartment, power compartment and connection compartment are encapsulated. The material of metal of the enclosure is cast aluminium. Two entry holes are provided in the enclosure of the connection compartment, where suitable certified cable gland or blanking element should be installed.

Nomenclature:

BDD95-*-* *

BDD95: Explosion-proof LED lightings;

The first *: Enclosure type 90, 160

The second *: Lamp power (W) 30, 60, 90, 120, 160

The third *: Mounting L: Pole type, K: Bracket type, D: Hook type

Rating

Rated voltage	100V-300VAC 50/60Hz	100-250VDC	135-250VDC
Lamp power	30W, 60W, 90W, 120W, 160W	30W, 60W, 90W, 120W	160W

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only the suitably M25×1.5 and G3/4 certified cable glands or plugs can be used by the users. And additional seal is required for the cable glands or plugs in order to ensure IP66.
2. The flameproof joint cannot be repaired.
3. After de-energized, delay 15 minutes before opening.
4. Do not open when energized.
5. Potential electrostatic charging hazard – see instructions.
6. Only use cables suitable for 80°C.
7. The BDD95 explosion-proof LED lights should be mounted only in accordance with manufacturer's instruction.
8. $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The standards IEC60079-0:2011 and IEC60079-7:2006 are updated to IEC60079-0:2017 and IEC60079-7:2017.
2. Rated voltage 100...250V DC is supplemented.
3. A light source with 30W can be optional in the enclosure of BDD95-90.
4. The LED power and mounting way of the LED chips are changed.
5. Marking "op is" and temperature class are added.
6. The plugs are removed.
7. G threaded holes are optional for cable entries on the lamp body.