



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 11.0013X**

Page 1 of 4

Status: **Current**

Issue No: 3

Date of Issue: **2024-03-25**

Certificate history:
Issue 2 (2017-08-02)
Issue 1 (2012-11-29)
Issue 0 (2011-08-31)

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Equipment: **Explosion-proof Floodlights typed BAT85-****

Optional accessory:

Type of Protection: **Flameproof enclosures "d", Protection by enclosure "t"**

Marking: **Ex db IIC T3/T4/T5/T6 Gb
Ex tb IIIC T xxx°C Db
-40°C≤Ta≤+40°C or -40°C≤Ta≤+60°C**

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

2024. 3. 25

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

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

CQM
China Quality Mark



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Certificate No.: **IECEx CQM 11.0013X**

Page 2 of 4

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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Manufacturing locations: **WAROM TECHNOLOGY
INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading
District, Shanghai, 201808
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 60079-31:2022 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 Reports:

[CN/CQM/ExTR11.0013/00](#)
[CN/CQM/ExTR11.0013/03](#)

[CN/CQM/ExTR11.0013/01](#)

[CN/CQM/ExTR11.0013/02](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/12](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0013X**

Page 3 of 4

Date of issue: 2024-03-25

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

BAT85 explosion-proof floodlight is of type "db" and "tb". It includes two versions.

The first version(integrated version) is an enclosure containing two compartments. A ballast, a trigger, and terminals are installed inside the ballast compartment. A light source, a lamp holder, and a

reflector panel are installed inside the light source compartment. The wires passing through two compartments are cemented by epoxy resin. The lamp body is made of casting aluminium alloy. On

the enclosure is cemented with glass sheet. The lamp body is provided with two threaded holes. Only the suitably certified cable glands can be used for fixing cables. The unused holes are blanked with

stopping plugs which are certified under IECEx LCIE 15.0070U.

The second version (separated version) is composed two enclosures. The electrical connection between the two enclosures is a cable which is clamped and sealed by cable glands certified under

IECEx LCI 08.0011X. Inside one enclosure is a light source. The construction of this enclosure is the same as that of the first one version. Inside the other enclosure is a ballast, a trigger and a capacitor.

The ballast body is provided with two threaded holes. The unused holes are blanked with stopping plugs which are certified under IECEx LCIE 15.0070U.

It is indicated that the stopping plug complies with IEC 60079-0, 2011, IEC 60079-1:2014 and IEC60079-31:2013 in the certificate IECEx LCIE 15.0070U. The differences between IEC 60079- 0:2011 and IEC 60079-0:2017, and differences between IEC 60079-31:2013 and IEC 60079-31:2022 do not affect the stopping plug with type of protection "db" and "tb".

It is indicated that the cable gland complies with IEC 60079-0, 2011, IEC 60079-1:2014 and IEC60079- 31:2008 in the certificate IECEx LCI 08.0011X. The differences between IEC 60079-0:2011 and IEC60079-0:2017 and differences between IEC 60079-31:2008 and IEC 60079-31:2022 do not affect the cable glands.

The degree of protection of explosion-proof floodlight is IP66 according to IEC60529.

Nomenclature, ratings and Ex markings are specified in attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The flameproof joint cannot be repaired.
2. As there is a potential electrostatic charging hazard, BAT85 explosion-proof LED floodlight must not be used in areas affected by charge-producing processes, mechanical friction and separation processed electron emission (e.g in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust to avoid electrostatic.
3. The BAT85 explosion-proof floodlights are intended to be mounted according to the mounting direction specified in the manual.
4. Only the suitably certified cable glands can be used for fixing cables.
5. User should provide additional clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
6. Do not open the light source compartment.
7. Only use the cable for 100°C.



IECEx Certificate of Conformity

Certificate No.: **IECEx CQM 11.0013X**

Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The standards are updated to IEC 60079-0: 2017 and IEC 60079-31:2022
2. Light source power HIE 70W 100W 150W,HSE 70W 100W and HME 80W 125W are added.
3. Cement for bushing is changed from E44 to FM328 or YY3011-3A/B.
4. Cement for glass plate is changed from N198 silicone resin sealant to XP-1132A.
5. Ambient temperature is changed from $-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ to $-40^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}/+60^{\circ}\text{C}$.

Annex:

[IECEx_CQM_11.0013X_03_Attachment.pdf](#)



Attachment to Certificate

IECEx CQM 11.0013X issue No.: 3



Applicant: Warom Technology Incorporated Company

No.555, Baoqian Road, Jiading District, Shanghai, 201808, P.R.China

Electrical equipment:

Explosion-proof floodlights BAT85-**

Description of equipment:

Nomenclature:

BAT85-**

1 2

1: light source: Metal halide lamp HIE, High pressure sodium lamp HSE, High pressure mercury lamp HME

2: lamp power

Ratings and Ex marking:

Rated voltage	light source	Lamp power (W)	Ex marking and Ta	
			-40°C≤Ta≤+40°C	-40°C≤Ta≤60°C
120VAC 50/60Hz	HIE	70, 100, 150	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
		175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
	HSE	70, 100	Ex db IIC T6 Gb Ex tb IIIC T80°C Db	Ex db IIC T5Gb Ex tb IIIC T95°C Db
		150, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
	HIE	70, 100, 150	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
		175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
208VAC 50/60Hz	HME	80, 125	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
		250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
	HSE	70, 100	Ex db IIC T6 Gb Ex tb IIIC T80°C Db	Ex db IIC T5 Gb Ex tb IIIC T95°C Db
		150, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db

China Quality Mark Certification Group Co., Ltd. (CQM)

No. 33 Zengguang Road., Haidian District, Beijing City, China

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Page 1 of 3



Attachment to Certificate



IECEx CQM 11.0013X issue No.: 3

220VAC 50/60Hz	HIE	175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3Gb Ex tb IIIC T195°C Db
	HME	250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3Gb Ex tb IIIC T195°C Db
	HSE	150, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3Gb Ex tb IIIC T195°C Db

230VAC 50/60Hz	HIE	70, 100, 150	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	
	HME	80, 125	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
		250	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 213°C Gb Ex tb IIIC T213°C Db
		70, 100	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
	HSE	150, 250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 211°C Gb Ex tb IIIC T211°C Db
		400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 211°C Gb Ex tb IIIC T211°C Db
		70, 100, 150	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
	HME	175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		80, 125	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 216°C Gb Ex tb IIIC T216°C Db
		400	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC 216°C Gb Ex tb IIIC T216°C Db
240VAC 50/60Hz	HIE	70, 100, 150	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
		175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		80, 125	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
	HME	250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 216°C Gb Ex tb IIIC T216°C Db
		400	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC 216°C Gb Ex tb IIIC T216°C Db
		70, 100	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
	HSE	150, 250	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 217°C Gb Ex tb IIIC T217°C Db
		70, 100, 150	Ex db IIC T4Gb Ex tb IIIC T130°C Db	Ex db IIC T4Gb Ex tb IIIC T130°C Db
250VAC 50/60Hz	HIE	175, 250, 400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		80, 125	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db
	HME	250	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 221°C Gb Ex tb IIIC T221°C Db
		70, 100	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db
	HSE	150, 250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC 211°C Gb Ex tb IIIC T211°C Db	Ex db IIC 231°C Gb Ex tb IIIC T231°C Db
		70, 100, 150	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db



Attachment to Certificate

IECEx CQM 11.0013X issue No.: 3



277VAC 50/60Hz	HIE	70, 100, 150	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db
		175, 250	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC 213°C Gb Ex tb IIIC T213°C Db
	HME	80, 125	Ex db IIC T5 Gb Ex tb IIIC T95°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db
		250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
	HSE	70, 100	Ex db IIC T4 Gb Ex tb IIIC T130°C Db	Ex db IIC T4 Gb Ex tb IIIC T130°C Db
		150, 250	Ex db IIC T3 Gb Ex tb IIIC T195°C Db	Ex db IIC T3 Gb Ex tb IIIC T195°C Db
		400	Ex db IIC 210°C Gb Ex tb IIIC T210°C Db	Ex db IIC 230°C Gb Ex tb IIIC T230°C Db