



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 12.0045X**

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Certificate history:

Status: **Current**

Issue No: 1

Issue 0 (2012-11-28)

Date of Issue: 2023-01-05

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

Equipment: **Explosion-proof light fittings typed BnD81-150 Series**

Optional accessory:

Type of Protection: **Restricted-breathing enclosures "nR", Dust protection by enclosure "tb"**

Marking: Ex nR IIC T4...T3 Gc
Ex tb IIIC T130°C... T190°C Db
Tamb: -60°C~+ 55°C/ -60°C~+40°C

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

2023. 1. 5

Date:
(for printed version)

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

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 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

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/ExTR12.0052/00

CN/CQM/ExTR12.0052/01

Quality Assessment Report:

CN/CQM/QAR07.0003/11



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BnD81-150 Series explosion-proof light fittings are protected by type "nR" and "tb". It is composed of enclosure, cover and glass cover. The enclosure and cover are made of aluminium alloy. The material of light transmitting part is glass. A E26/E27 lamp holder, a ballast, a trigger, a capacitor and a connection board are installed in the enclosure. The entry hole is blocked by a plug. The product meets IP65 according to the requirement of IEC 60529.

Refer to attachment for detail of nomenclature and electrical parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to the attachment of this certificate for details.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Correct and optimize the description of requirements for the temperature of cable.
2. Update the standard to IEC 60079-0:2017, IEC 60079-15:2017, IEC 60079-31:2013.
3. Update the Ex marking "Ex nR IIC T4/T3 Gc, Ex t IIIC T130°C/T190°C Db" to "Ex nR IIC T4...T3 Gc, Ex tb IIIC T130°C... T190°C Db".
4. Correct the code in the nomenclature.

Annex:

[IECEX CQM 12.0045X issue 1 Attachment.pdf](#)



Attachment to Certificate

IECEX CQM 12.0045X issue No.1



Applicant:

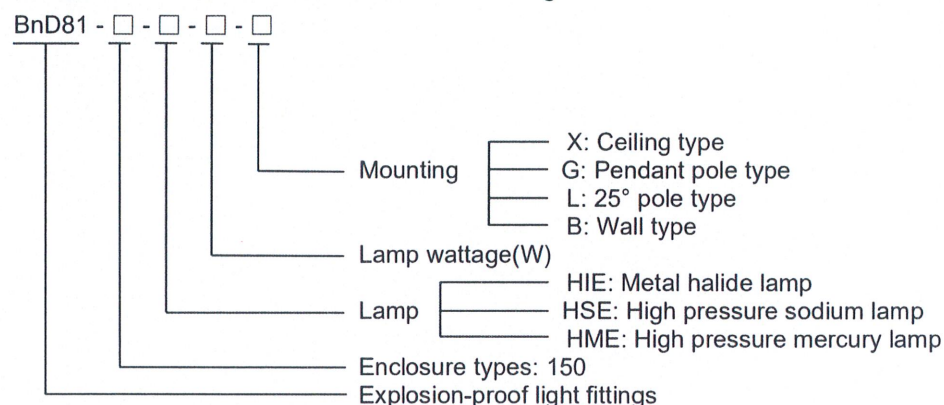
Warom Technology Incorporated Company

Address: No.555, Baoqian Road, Jiading, Shanghai, 201808, PRC

Electrical equipment:

Explosion-proof light fittings typed BnD81-150-*-*

The details of nomenclature are as following:



The options for lamp wattage are: 70W, 80W, 100W, 125W and 150W.

Electrical parameters:

Refer to Table 1 and Table 2 for the relation between electrical parameters, temperature class and combination of lamps, ballasts and capacitors.

Table 1 European standard

Rated voltage(V)	Rated power(W)	Temperature class			
		-60℃≤Ta≤+40℃		-60℃≤Ta≤+55℃	
		Gas	Dust	Gas	Dust
220V~250V AC 50/60Hz	HIE70W HIE100W	T4	T130℃	T4	T130℃
220V~230V AC 50/60Hz	HIE150W			T4	T130℃
240V~250V AC 50/60Hz				T3	T190℃
220V~240V, 250V AC 50/60Hz	HME80W			T4	T130℃
	HME125W			T3	T190℃
	HSE70W			T4	T130℃
	HSE100W				



Attachment to Certificate

IECEX CQM 12.0045X issue No.1



Table 2 American standard

Rated voltage(V)	Rated power(W)	Temperature class			
		-60°C≤Ta≤+40°C		-60°C≤Ta≤+55°C	
		Gas	Dust	Gas	Dust
120V/208V/240V/ 277V/480V AC 50/60Hz	HIE70W	T4	T130°C	T4	T130°C
	HIE100W				
	HIE150W				
	HSE70W				
	HSE100W				

Specific condition of use:

1. If the enclosure needs to be opened, the gasket shall be replaced with the gasket specified by the manufacturer.
2. When user connecting, high-temperature resistant wire must be adopted, details see blow:

Rated power (W)	Ambient temperature: -60°C~+40°C	Ambient temperature: -60°C~+55°C
	The minimum heat resistance temperature of the cable or wire in the entry device (°C)	
HSE70, HSE100	No specific requirement	84
HIE70, HIE100, HIE150	92	107
HME80, HME125	70	85

3. The explosion-proof light fittings are intended to be vertically mounted at a maximum of 25 degrees from the vertically downward.
4. The equipment shall 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 in the combustible dust atmospheres.
5. Observe the warning "WARNING – DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"