



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 12.0011X**

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Certificate history:

Issue 1 (2023-01-05)

Issue 0 (2012-05-15)

Status: **Current**

Issue No: 2

Date of Issue: **2023-10-22**

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

Equipment: **Explosion-proof floodlights typed BnT81-****

Optional accessory:

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

Marking: Ex nR IIC T3 Gc, Ex nR IIC T252°C Gc,

Ex tb III C T190°C Db, Ex tb III C T195°C Db, Ex tb III C T252°C Db

Tamb: -60°C~+55°C

Approved for issue on behalf of the IECEx
Certification Body:


Ji Xiaodong

Position:

President

Signature:
(for printed version)


2023. 10. 22

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

CQM
China Quality Mark



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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 60079-31:2022 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/ExTR12.0026/00

CN/CQM/ExTR12.0026/01

CN/CQM/ExTR12.0026/02

Quality Assessment Report:

CN/CQM/QAR07.0003/12



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Date of issue: **2023-10-22**

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BnT81 series explosion-proof floodlights are protected by "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 E39/E40 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 details of nomenclature and electrical parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to the attachment of this certificate.



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Date of issue: **2023-10-22**

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Update the standard to IEC 60079-31:2022.
2. Increase the technical parameters: input voltage: 415V AC,50Hz; rated power: HSE 250W, 400W.

Annex:

[IECEx CQM 12.0011X issue 2 Attachment.pdf](#)



Attachment to Certificate

IECEx CQM 12.0011X issue No.2



Applicant:

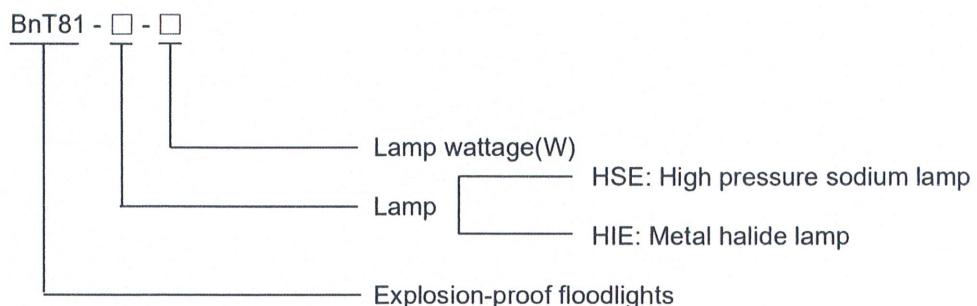
Warom Technology Incorporated Company

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

Electrical equipment:

Explosion-proof light fittings typed BnT81-*-*

The details of nomenclature are as following:



The options for lamp wattage are: 150W, 175W, 250W and 400W.

Electrical parameters:

Refer to Table 1 and Table 2 for the relation between electrical parameters and temperature class

Table 1 European standard

Rated voltage(V)	Rated power(W)	Temperature glass	
		Gas	Dust
220V~250V AC 50/60Hz	HIE175W	T3	T190°C
	HIE250W		
	HSE150W		
	HSE250W		
	HIE400W		
	HSE400W	T252°C	T252°C

Table 2 American standard

Rated voltage(V)	Rated power(W)	Temperature glass	
		Gas	Dust
120V/208V/240V/ 277V/480V AC 50/60Hz	HIE175W	T3	T190°C
	HIE250W		
	HIE400W		
	HSE150W		
	HSE250W		
	HSE400W		



Attachment to Certificate

IECEx CQM 12.0011X issue No.2



Rated voltage(V)	Rated power(W)	Temperature glass	
		Gas	Dust
415V AC 50Hz	HSE250W HSE400W	T3	T195°C

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~+55°C
	The minimum heat resistance temperature of the cable or wire in the entry device (°C)
HSE150W, HSE250W	72
HSE400W	87
HIE175W, HIE250W	74
HIE400W	80

3. The floodlight may only be operated in the direction from upward 45° to 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"