



# 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](http://www.iecex.com)

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Status: **Current** Issue No: 0

Date of Issue: 2025-04-28

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
555 Baoqian Road, Jiading District, Shanghai City. China  
**China**

Equipment: **Explosion-proof LED lightings typed HRD99-\*\***

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking: Ex db IIC T6/T5 Gb  
Ex db IIB T6/T5 Gb  
Ex tb IIIC T80°C/ T95°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Ji Xiaodong**

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**





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555 Baoqian Road, Jiading District, Shanghai City. China  
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Manufacturing  
locations: **WAROM TECHNOLOGY  
INCORPORATED COMPANY**  
555 Baoqian Road, Jiading District,  
Shanghai City. China  
**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 Report:

[CN/CQM/ExTR25.0020/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/13](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The HRD99 series explosion-proof LED lightings are composed of a shell, washer, LED light source module, transparent cover, and wireless connector. The transparent cover is made of high-transmittance and impact-resistant light diffusion material, with an impact energy resistance of 4J. The shell and washer are all cast from aluminum alloy; the exposed fasteners are all made of high-corrosion-resistant stainless steel. The equipment has an ingress protection IP66 according to IEC 60529.

## Ratings:

Rated Voltage: 220~240V AC 50/60Hz

Rated Power: 20W, 30W, 50W, 70W, 80W, 100W

## Details of nomenclature :

### HRD99-①②

①means rated power (W) which can be 20, 30, 50, 70, 80, 100;

②means mounting type which can be X(Ceiling type), K(Bracket type), L(Pole type), G(Pendant type)

The relationship between ambient temperature and Ex marking as following:

Model	Rated Power/W	Ex marking			
		-40℃～+40℃	-40℃～ +58℃	-20℃～+40℃	-20℃～+58℃
HRD99-20	20	Ex db IIB T6 Gb Ex tb IIIC T80℃ Db	Ex db IIB T5 Gb Ex tb IIIC T95℃ Db	Ex db IIC T6 Gb Ex tb IIIC T80℃ Db	Ex db IIC T5 Gb Ex tb IIIC T95℃ Db
HRD99-30	30				
HRD99-50	50				
HRD99-70	70				
HRD99-80	80	/			
HRD99-100	100				

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When the ambient temperature is -20℃/-40℃~ +40℃, it is suitable for the temperature class T6/T80℃, when the ambient temperature is -20℃/-40℃~ +58℃, it is suitable for temperature class T5/T95℃.

2. The flameproof joints cannot be repaired.

3. The product is delivered without cable gland, During installation and operation separated IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db cable gland must be applied with minimum ingress protection IP66 shall be applied with a minimum ingress protection of IP66.

4. Observe the warning "WARNING –DO NOT OPEN WHEN ENERGIZED", "WARNING –DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT". For installation and operation in the combustible dust atmosphere, observe the warning "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS."