



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 22.0036X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-03-10

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

Equipment: **Explosion-proof LED lightings typed HRD97-****

Optional accessory:

Type of Protection: **Flameproof enclosure "db", Dust ignition protected by enclosure "tb"**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T80°C Db
-40°C ≤ T_a ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

2023. 3. 10

Signature:
(for printed version)

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.
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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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Page 2 of 3

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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
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China

Manufacturing locations: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
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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 60079-31:2022-01 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/ExTR22.0046/00

Quality Assessment Report:

CN/CQM/QAR07.0003/11



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The enclosure of the equipment is made of aluminium alloy with surface painting. Special heat dissipation ribs ensure good heat dissipation. The lighting is equipped with a power supply controller which has wide voltage input, constant current and constant voltage output. The equipment consists of one light cavity and one junction cavity. Wires connecting between the two cavities are encapsulated with length more than 20mm. The lens is made of tempered glass which is cemented to the housing. There is a cylindrical joint between the rear shell body and the heat sink body. O-ring is provided at the root of the joint for ingress protection. The equipment has an ingress protection IP66 according to IEC 60529.

Detail of types covered by this certificate: HRD97-10K, HRD97-10X, HRD97-20K, HRD97-20X

Rated Voltage: 24V AC 50/60Hz, 36V AC 50/60Hz, 100~277V AC 50/60Hz, 24V DC, 36V DC.

Rated Power: 10W, 20W

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature: -40°C~ +60°C.
2. The flameproof joints cannot be repaired.
3. The product is delivered without cable gland, Before application, separate IECEx certified Exdb IIC Gb or/and Ex tb IIIC Db IP66 cable gland must be applied, rated minimum IP66, suitable for the conditions of use and correctly installed.
4. CAUTION- USE FASTENERS WITH YIELD STRESS $\geq 450\text{MPa}$.
5. Observe the warning "WARNING -DO NOT OPEN WHEN ENERGIZED", "WARNING -DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE IS PRESENT", "WARNING -DO NOT RELEASE THE GLASS PRESS RING DURING THE INSTALLATION OR MAINTENANCE". For installation and operation in the combustible dust atmosphere, observe the warning "WARNING -POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS."
6. The fastener shall only be replaced with those specified by the manufacturer.