



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 24.0001X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2025-07-16) Issue 0 (2024-01-17)
Date of Issue:	2025-11-12		
Applicant:	WAROM TECHNOLOGY INCORPORATED COMPANY No. 555, Baoqian Road, Jiading District, Shanghai 201808 China		
Equipment:	Explosion-proof LED Light Fitting typed HRY97-□□□		
Optional accessory:			
Type of Protection:	Increased safety "eb", Flameproof enclosure "db", Encapsulation "mb", Dust ignition protection by enclosure "tb"		
Marking:	Ex db eb mb IIC T5/T4 Gb Ex tb IIIC T70°C/T90°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

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

WAROM TECHNOLOGY MENA FZCO
Plot, S10103, Jebal Ali South, Jebal Ali Freezone
DUBAI PO Box: 263667
United Arab Emirates

WAROM TECHNOLOGY ARABIA INDUSTRIAL LLC
Building No. 4443, Ibn Sina Street, 1st Industrial District
Dammam 32234
Saudi Arabia

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR24.0001/00](#) [CN/CQM/ExTR24.0001/01](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The lighting is comprised with end cover and main body. The case material at both ends of the lamp is made of aluminum alloy, surface power coated. The main case body is made of aluminum alloy, and the surface is oxidized. The transparent cover is made of PC. Inside the lighting, it is equipped with a flameproof indicator, separated certified Explosion-proof Replaceable LED Module (IECEx CQM 23.0040U), encapsulated explosion-proof LED Driver (IECEx CQM 23.0041U) and encapsulated explosion-proof LED Emergency Controller (IECEx CQM 23.0042U), independent wiring chamber, built-in explosion-proof wiring terminal (IECEx CQM 21.0007U, IECEx SIR 20.0046U). The blanking element used was certified separately (IECEx CQM 25.0022X). The ingress protection of enclosure fulfills the requirements of IP66 according to IEC 60529.

Refer to attachment for details of nomenclature, electrical parameters, relation between ambient temperature and temperature class and information of Ex components.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature: -40°C~+40°C, -40°C~+58°C, -40°C~+60°C.
2. CAUTION- USE FASTENERS WITH YIELD STRESS ≥450MPa.
3. Observe the warnings "WARNING-DO NOT OPEN WHEN EXPLOSIVE ATMOSPHERE MAY PRESENT". For installation and operation in the explosive atmosphere, observe the warning "WARNING –POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS".
4. When the product is installed in explosive gas atmosphere, separated certified cable glands or blanking elements fulfil requirements of IEC 60079-0:2017 and IEC 60079-7:2015 with Ex marking Ex eb IIC Gb, IP66 shall be incorporated.
5. When the product is installed in combustible dust atmosphere, separated certified cable glands or blanking elements fulfil requirements of IEC 60079-0: 2017 and IEC 60079-31:2022 with Ex marking Ex tb IIIC Gb, IP66 shall be incorporated.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Additional manufacturing locations WAROM TECHNOLOGY MENA FZCO and WAROM TECHNOLOGY ARABIA INDUSTRIAL LLC are added.

Annex:

[IECEx_CQM_24.0001X_002.pdf](#)

**Applicant:****WAROM TECHNOLOGY INCORPORATED COMPANY**

Address: No. 555 Baoqian Road, Jiading District, Shanghai, 201808, China

Electrical equipment:

Explosion-proof LED Light Fitting

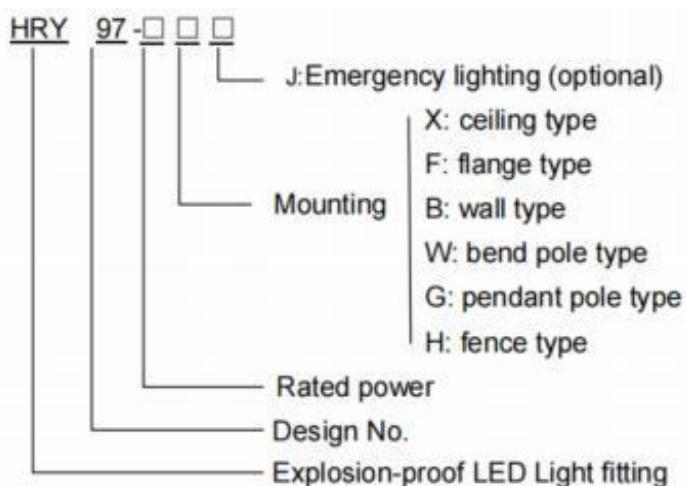
Nomenclature:**Electrical parameters and relation between ambient temperature and temperature class:**

Table 1 for Non-emergency type

Model	Rate input voltage	Rated power (W)	Ambient temperature	
			-40°C ~ +40°C	-40°C ~ +60°C
HR97-20□	100-277VAC 50/60Hz 130-250V DC	20	Ex db eb mb IIC T5 Gb Ex tb IIIC T70°C Db	Ex db eb mb IIC T4 Gb Ex tb IIIC T90°C Db
HR97-40□		40		
HR97-60□		60		

Table 2 for Emergency type

Model	Rate input voltage	Rated power (W)	Ambient temperature	
			-40°C ~ +58°C	
HR97-20□J	100-277VAC 50/60Hz 130-250V DC	20	Ex db eb mb IIC T4 Gb Ex tb IIIC T90°C Db	
HR97-40□J		40		
HR97-60□J		60		



Attachment to CoC

IECEx CQM 24.0001X Issue 2



List of the components covered by separated IECEx certificates:

Components	Manufacturer	Type	Certificate	Standards
Explosion- proof Replaceable LED Module	Warom	BM Series	IECEx CQM 23.0040U	IEC 60079-0:2017 IEC 60079- 1:2014 IEC 60079-7:2017
Explosion- proof LED Driver	Warom	HLY-Y Series	IECEx CQM 23.0041U	IEC 60079-0:2017 IEC 60079- 18:2017
Explosion- proof LED Emergency Controller	Warom	HLY-J Series	IECEx CQM 23.0042U	IEC 60079-0:2017 IEC 60079- 18:2017
Explosion- proof terminal block	Warom	TC8050 Series	IECEx CQM 21.0007U	IEC 60079-0:2017 IEC 60079-7:2017
Stopping plug	Warom	BPT Series	IECEx CQM 25.0022X	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-7:2017 IEC 60079-31:2022
Terminal blocks	Connectwell Industries Pvt. Ltd.	CMT4	IECEx SIR 20.0046U	IEC 60079-0:2017 IEC 60079-7:2017