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 19.0013X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 4

Issue 3 (2025-07-04)
Issue 2 (2023-06-14)
Issue 1 (2020-12-09)
Issue 0 (2019-05-23)

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 fittings typed BAY51-Q LED Series**

Optional accessory:

Type of Protection: **Flameproof enclosure 'db', Inceased safety 'eb', Encapsulation 'mb', Powder filling 'q', Dust ignition protection by enclosuure 'tb'**

Marking: 1. BAY51-Q LED 9×**, BAY51-Q LED 18×**

Ex db eb IIC T6 Gb

Ex tb IIIC T80°C Db

2. BAY51-Q LED 14×***, BAY51-Q LED 28×***

Ex db eb q IIC T6...T5 Gb

Ex tb IIIC T80°C Db

3. BAY51-Q LED 20**, BAY51-Q LED 40**, BAY51-Q LED 60**, BAY51-Q LED 80**

Ex db eb mb IIC T6…T5 Gb

Ex tb IIIC T80°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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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

China Quality Mark

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

Manufacturing locations:

WAROM TECHNOLOGY INCORPORATED COMPANY
No. 555, Baoqian Road, Jiading District, Shanghai 201808,China
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 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling “q”
Edition:4.0

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/ExTR19.0016/00 CN/CQM/ExTR19.0016/01 CN/CQM/ExTR19.0016/02
CN/CQM/ExTR19.0016/03

Quality Assessment Report:

CN/CQM/QAR07.0003/14

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The BAY51-Q LED Explosion-proof light fittings employs a composite explosion-proof design, with the enclosure constructed from GRP material and the transparent cover made of PC material. The light source is available in two forms: LED tubes and LED SMD. The luminaire is equipped with an interlocking mechanism that disconnects power upon opening the cover. For the LED tube configuration, the BT8 explosion-proof LED tube is utilized. This configuration is available in two forms: built-in power supply and external power supply. The built-in power supply version does not feature emergency functionality and solely includes the BT8 explosion-proof LED tube. The external power supply version offers options without and with emergency functions. The non-emergency version includes the BT8 explosion-proof LED tube and an explosion-proof LED driver, while the emergency version incorporates not only the BT8 explosion-proof LED tube, but also an explosion-proof emergency controller and a battery pack. The SMD LED light source, without emergency functionality, comprises an explosion-proof LED light source module, an explosion-proof LED driver, and explosion-proof terminal connectors. The version with emergency functionality includes an explosion-proof LED light source module, an explosion-proof LED driver, explosion-proof terminal connectors, an explosion-proof LED emergency controller, a battery pack, and an explosion-proof indicator light module. The equipment fulfills the requirements of IP66 according to IEC 60529.

Refer to the attachment for nomenclature, ratings and list of separated certified Ex components.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Only the suitably certified cable glands can be used for fixing cables. The cable glands used should ensure that the clearance hole for the plain entry has a diameter not more than 0.7mm greater than the normal thread size of the gland.
2. The battery can only be replaced by Warom, other than users.
3. If the tubes need to be replaced, it can only be replaced by the BT8 tubes certified under IECEx CQM 19.0012U.
4. Observe the warnings “WARNING-DO NOT OPEN WHEN EXPLOSVIE ATMOSPHERE MAY PRESENT”. “WARNING –POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS”.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Change the location of WAROM TECHNOLOGY MENA FZCO and additional manufacturing Location WAROM TECHNOLOGY ARABIA INDUSTRIAL LLC is added.

Annex:

IECEx_CQM_19.0013X_004.pdf

Attachment to CoC

IECEx CQM 19.0013X Issue 04

Manufacturer:

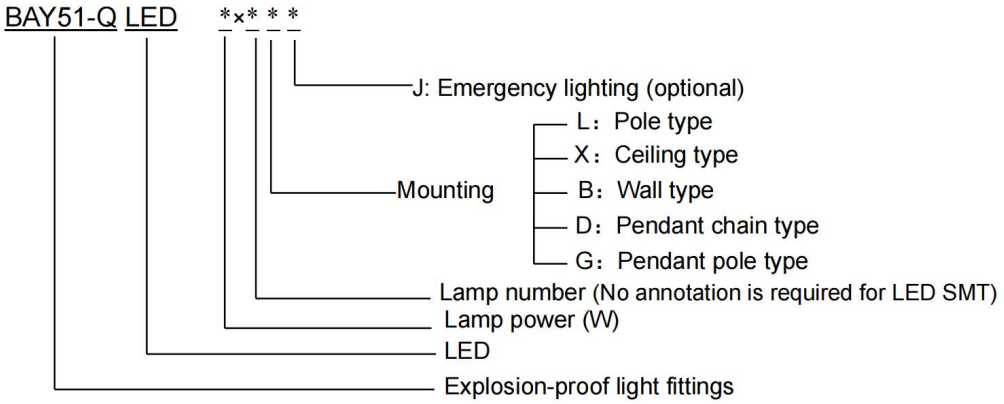
WAROM TECHNOLOGY INCORPORATED COMPANY

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

Electrical equipment:

Explosion-proof LED light fittings typed BAY51-Q LED *×***

Nomenclature:



Ratings:

Model	Rated voltage	Rated power (W)	Ambient temperature
			-40°C ~ +55°C
BAY51-Q LED 9×**	170-264V AC 50/60Hz	9W×1	Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db
		9W×2	
BAY51-Q LED 18×**		18W×1	
		18W×2	

Model	Rated voltage	Rated power (W)	Ambient temperature	
			-40℃ ~ +45°C	-40℃ ~ +55°C
BAY51-Q LED 14×**	100-277V AC 50/60Hz 200-250V DC	14W×1	Ex db eb q IIC T6 Gb Ex tb IIIC T80°C Db	Ex db eb q IIC T5 Gb Ex tb IIIC T80°C Db
BAY51-Q LED 14×**J		14W×2		
BAY51-Q LED 28×**		28W×1		
BAY51-Q LED 28×*J		28W×2		

Model	Rated voltage	Rated power (W)	Ambient temperature	
			-40°C ~ +55°C	-40°C ~ +60°C

BAY51-Q LED20*	100-277VAC 50/60Hz 130-250V DC	20	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	Ex db eb mb IIC T5 Gb Ex tb IIIC T80°C Db
BAY51-LED20*J		20		
BAY51-Q LED 40*		40		
BAY51-Q LED 40*J		40		

Model	Rated voltage	Rated power (W)	Ambient temperature	
			-40°C ~ +45°C	-40°C ~ +55°C
BAY51-Q LED 60*	100-277VAC 50/60Hz 130-250V DC	60	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	Ex db eb mb IIC T5 Gb Ex tb IIIC T80°C Db
BAY51-Q LED 60*J		60		

Model	Rated voltage	Rated power (W)	Ambient temperature
			-40°C ~ +45°C
BAY51-Q LED 80*	100-277VAC 50/60Hz 130-250V DC	80	Ex db eb mb IIC T5 Gb Ex tb IIIC T80℃ Db
BAY51-Q LED 80*J		80	

List of the components covered by separated IECEx certificates and statement of the assessments regarding the older editions of the standards:

Components	Manufacturer	Type	Certificate	Standards
Explosion-proof LED tube	Warom	BT8 Series	IECEx CQM 19.0012U	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-7:2017
Explosion-proof LED driver	Warom	HRB Series	IECEx CQM 19.0002U	IEC 60079-0:2017 IEC 60079-5:2015 IEC 60079-7:2017
HRE explosion-proof LED emergency controller	Warom	HRE Series	IECEx CQM 19.0011U	IEC 60079-0:2017 IEC 60079-5:2015 IEC 60079-7:2017
Explosion-proof Replaceable LED	Warom	BM Series	IECEx CQM 23.0040U	IEC 60079-0:2017 IEC 60079-1:2014

Module				IEC 60079-7:2017
Explosion-proof indicator light module	Warom	BM-D Series	IECEx CQM 24.0043U	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
Universal explosion-proof button switch	Warom	BA-X Series	IECEx TUR 20.0041U	IEC 60079-0:2017 IEC 60079-1:2014
Explosion-proof Terminal Block	Warom	TC 8050 Series	IECEx CQM 21.0007U	IEC 60079-0:2017 IEC 60079-7:2017
Terminal blocks	Connectwell Industries Pvt. Ltd.	CMT4	IECEx SIR 20.0046U	IEC 60079-0:2017 IEC 60079-7:2017
Explosion-proof stopping plug	Warom	BPT-e Series	IECEx CQM 16.0021X	IEC 60079-0:2011(1) IEC 60079-7:2015(2) IEC 60079-31:2013(3)

Regarding the older editions of the standards:

Note:

(1): not impacted by the major technical changes until the standard IEC 60079-0:2017

(2): not impacted by the major technical changes until the standard IEC 60079-7:2017

(3): not impacted by the major technical changes until the standard IEC 60079-31:2022