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 CNEX 23.0002X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2023-06-02

Applicant: **Warom Technology Incorporated Company**
No.555, Baoqian Road, Jiading District, Shanghai, 201808,
China

Equipment: **Explosion-proof LED street lamps model BAM52 series.**

Optional accessory:

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

Marking: Ex nR IIC T6…T5 Gc

Ex tb IIIC T80℃…T95℃ Db

Approved for issue on behalf of the IECEx Certification Body: **Hou Yandong**

Position: **Certification Officer**

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.
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:

CNEX-Global B.V.
Utrechtseweg 310-B42,
6812 AR ARNHEM
Netherlands

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Certificate No.: **IECEx CNEX 23.0002X** Page 2 of 3

Date of issue: 2023-06-02 Issue No: 0

Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
555 Baoqian Road, Jiading District, Shanghai, 201808
China

Manufacturing locations:

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-15:2017 Edition:5.0	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31:2022-01 Edition:3.0	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

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:

NL/CNEX/ExTR23.0002/00

Quality Assessment Report:

CN/CQM/QAR07.0003/11

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

The structure of the BAM52-□ Series Explosion-proof LED Street Lamps is explosion protection type “nR” (for Gas applications), and in type 'tb' (for Dust applications). The sealing rings in the joints in order to conform to the structural requirements of dust ignition protection. LED light source, reflector, power supply, over voltage protector and terminals are installed in “nR” chamber. The shell body and cover are made of cast aluminum alloy ENAC-46100(ADC12) (the content of magnesium, titanium and zirconium are no more than 7.5%) with minimum thickness of 1.5mm(type BAM52-30/40/50/60/80) / 1.7mm(type BAM52-100/120) / 1.8mm(type BAM52-150/160/180/200). The light-transmitting parts is made of toughened glass with minimum thickness of 4mm. There is one cable entry on the cover, plain hole size Φ20.5 mm.

For nomenclature and further details, see the Annex to this certificate.

Additional Information:

The enclosure of the explosion-proof LED street lamps model BAM52 series successfully passed the tests for the Ingress Protection level IP66 to IEC 60529.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The ambient temperature range is limited to -40℃…+45℃/+55℃ .

Metal enclosure is submitted to test corresponding to the low risk of mechanical danger, the anti-impact energy is 4J.

For the “nR” enclosures of the BAM52-□ Series Explosion-proof LED Street Lamps, before application, separate IECEx certified cable gland (size M20×1.5) are to be used, suitable for the conditions of use, rated minimum IP66 and correctly installed.

A test port is not included in the equipment. After the opening of the covers pay attention to avoid damages to the gaskets and check their status. If necessary contact the manufacturer for gaskets replacement.

Annex:

P23048IA-CCA certificate IECEx CNEX23.0002X issue 0 Annex_1.pdf

Annex to
Certificate IECEx CNEX 23.0002X Issue 0

Equipment or Protective System: **Explosion-proof LED street lamps model BAM52 series**

Applicant: **Warom Technology Incorporated Company**

Address: **555 Baoqian Road, Jiading, Shanghai, P.R. CHINA**

Nomenclature for motor model BAM52-a:

BAM	-	Explosion-proof LED Street Lamps
52	-	Design code
a	-	Power (W)

Lamp models covered:
The lamp models that are covered by this certificate are detailed in the Test Report Cover document. (P23048IA-CS).

Electrical Data:
Rated power …… : 30 W - 200 W
Rated voltage ……: 100 - 277 Vac, 50/60 Hz or
130 - 250 Vdc
For details per lamp model, see Annex A.

Descriptive Documents:
Detailed in the Test Report Cover document. (P23048IA-CS).

Mounting Instructions:
See manufacturer's instructions.

Installation Instructions:
See manufacturer's instructions.

Routine tests:
Routine tests are detailed in the Test Report Cover Sheet.
(ref. P23048IA-CS).

Annex to
Certificate IECEx CNEX 23.0002X Issue 0

Annex A – Lamp models covered by this certificate:

Type of production	Rated power	Max. dissipated power	Rated voltage/ Rated frequency	Ambient temperature/ temperature classification			
				Ta≤+45℃		Ta≤+55℃	
				Gas	Dust	Gas	Dust
BAM52-30 BAM52-40 BAM52-50 BAM52-60 BAM52-80	30W	33W	AC 100-277V 50/60Hz DC 130-250V	--	--	T6	T80℃
	40W	44W					
	50W	55W					
	60W	66W					
	80W	88W					
BAM52-100 BAM52-120	100W	110W		--	--	T6	T80℃
	120W	130W					
BAM52-150 BAM52-160 BAM52-180 BAM52-200	150W	160W		T6	T80℃	T5	T95℃
	160W	170W					
	180W	190W					
	200W	220W					