



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 21.0029X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2022-01-14)

Status: **Current** Issue No: 1

Date of Issue: 2023-10-18

Applicant: **Dongguan Pan American Electronics Co., Ltd.**
Building 6, Building 3 Room 103, Building 3 Floor 8/9/10/11
Tian 'an Digital City
No.88 Jinyuan Road, Zhongtang Town
Dongguan city 523227 Guangdong
China

Equipment: **ES01 Explosion proof luminaires typed EX-**W ES01-****

Optional accessory:

Type of Protection: **Flameproof "db", Increased safety "eb", Encapsulation "mb", Powder filling "q" and Dust protection by enclosure "tb"**

Marking: Ex db eb mb q IIC T4/T5 Gb, Ex tb IIIC 80°C/90°C Db IP66

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





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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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
- [IEC 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0
- [IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2
- [IEC 60079-5:2015](#) Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0
- [IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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 Reports:

[CN/CQM/ExTR21.0027/00](#) [CN/CQM/ExTR21.0027/01](#)

Quality Assessment Report:

[CN/NEP/QAR19.0007/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

EX-**W ES01-** series Explosion-proof luminaires is composed of plastic shell, PC lampshade, controller, lamp board, entry head, battery module, indicator and button switch. Lamps mainly include the following parts:

The main body of the luminaires shell is "Ex eb", the built-in controller is "Ex q", the lamp board is "Ex mb", the button switch is "Ex db", the wiring terminal is "Ex eb", the indicator is "Ex mb" and the sealing battery module.

There are two cable entries are at each side wall of body which are used to install M25 or M20 certified cable glands or stopping plugs with suitable IP code.

Rated voltage: AC100~277V, DC12V~36V

Rated power: Max 15W

Refer to special condition for the relation between the ambient temperature and temperature class.

Refer to attachment for the details of nomenclature.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The relation between applicable ambient temperature, temperature class and maximum temperature are as below:

Ambient temperature	Explosive gas atmosphere Temperature class	Explosive dust atmosphere Maximum surface temp
-20°C~+35°C	T5	T80°C
-20°C~+45°C	T4	T90°C

2. Enclosure of the product shall not be open when explosive gas or combustible dust presents.
3. Flameproof joints only can be maintained by manufacturer.
4. Potential electrostatic charging hazard – see instructions.
5. Do not replace battery in an explosive atmosphere.
6. Do not open when energized.
7. Observe the marking on the "Ex q" built-in controller "This container has been permanently sealed and cannot be repaired."



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Revised temperature class.
2. To update the certificate to related to the updated ExTR with more details.
3. Updated the applicant's and manufacturer's address.
4. Change the related QAR to cover the new manufacturer's address.

Annex:

[IECEX CQM 21.0029X 01 Attachment.pdf](#)



Attachment to Certificate

IECEX CQM 21.0029X issue 1



Manufacturer:

Dongguan Pan American Electronics Co., Ltd.

Address: Building 6, Building 3 Room103, Building 3 Floor 8/9/10/11, Tian'an Digital City, No.88 Jin yuan Road, Zhong tangTown, Dongguan City,523227 Guangdong, China

Electrical equipment:

ES01 Explosion proof luminaires typed EX-**W ES01-**

Nomenclature:

EX - **W ES01 - * *

Designates Color temperature optional, it can be 27 to 70 denotes 2700K to 7000K, and each 100K gradually increase, max 7000K.

Note: Escape route sign luminaires do not have this option.

When the luminaires do not have a battery, the main function is lighting, and its value is "N". When the luminaires have its own battery and its main function is emergency lighting, its value is "Y". When the lamp is an emergency escape route sign luminaire, its value is "A" to "X", See ES01 Series Explosion proof luminaires Manual Table 1.

"ES01" Designates Type series.

The luminaire rated wattage: 1W to 15W. The rated power is a multiple of 0.5, with a minimum of 1W and a maximum of 15W.

Escape route sign luminaires: Max. 10W

Emergency lighting luminaires and Lighting luminaires: Max. 15W

"EX" means explosion proof product.