



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 TPS 22.0028X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2023-03-17) Issue 0 (2022-08-15)
Date of Issue:	2026-08-03		
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:	Explosion-proof LED lamp, Type: EX-***W***** series		
Optional accessory:			
Type of Protection:	Flameproof enclosure "db", Increased safety "eb", Encapsulation "mb", Protection by enclosure "tb"		
Marking:	Ex eb mb IIC T6...T4 Gb Ex db eb mb IIC T6...T5 Gb (EX-***WFLG*****-E series) Ex tb IIIC T80°C...T100°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Xia Jiayan

Position:

Technical Certifier

Signature:
(for printed version)

Date:
(for printed version)

03.08.2026

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Certificate issued by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



IECEx Certificate of Conformity

Certificate No.: **IECEx TPS 22.0028X**

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Date of issue: 2026-08-03

Issue No: 2

Manufacturer: **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

Manufacturing locations:	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	VIETNAS INTERNATIONAL COMPANY LIMITED LOT L2B-CN, MY PHUOC 2 INDUSTRIAL PARK, BEN CAT WARD HO CHI MINH CITY 75954 Viet Nam
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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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Report:

[DE/TPS/ExTR22.0029/02](#)

Quality Assessment Reports:

[CN/NEP/QAR19.0007/08](#)

[CN/NEP/QAR25.0022/00](#)



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Date of issue: 2026-08-03

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment:

The EX-***W***** series explosion-proof LED lamps are suitable for use in the following hazardous areas:

- Explosive gas atmospheres: Zone 1, Zone 2, group IIC;
- Explosive dust atmospheres: Zone 21, Zone 22, group IIIC.

The lamp enclosure is made of metal with a non-metallic coating applied on the surface. The lamp cover is made of glass or PC. The explosion protection types for the enclosure are "eb" and "tb", with sealing gaskets provided at the joint surfaces. The degree of protection is IP66.

The LED board is protected by encapsulation type "mb" and is fully encapsulated. The LED board is powered by a certified LED driver or emergency power supply. The driver power supply has explosion protection type "mb", and the emergency power supply may have type "mb" or "db". Among these, only the EX-***WFLG*****-E series lamps are equipped with a driver of protection type "db".

Threaded entries are provided on the enclosure, and certified cable glands and stopping plugs have been installed. Installation shall be carried out in accordance with the product instruction manual.

Model destination:

Refer to Annex.

Technical data:

Refer to Annex.

Warning label:

WARNING - DO NOT OPEN WHEN ENERGIZED

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Installation shall be performed according to the latest version of IEC 60079-14.
2. For LED lamps of different models and enclosure structures, the corresponding relationships among the applicable ambient temperature, temperature class, maximum input power, and input voltage range are shown in the technical data in the annex.
3. The stopping plug, LED driver, terminal block and cable gland are separately certified under IECEx Certificates of Conformity and cannot be replaced or repaired by the end-user; contact the manufacturer in case of damage or repair. Similarly, for LED lamps with an emergency power supply, the internal battery pack shall not be replaced arbitrarily - if replacement is necessary, contact the manufacturer.
4. The cable shall be selected and installed by the end user. The installer shall ensure that the cable is effectively clamped, and the clamping shall be performed outside the enclosure, adjacent to the mounting position of the cable entry device.
5. The LED lamp enclosure and the PC cover may present a risk of electrostatic charge accumulation. Therefore, they shall only be cleaned with a damp cloth.
6. For lamps using 5050 LED beads, the LED driver must be selected from the EX-***W-*A*-B series, and the input voltage range shall be 200-250 V AC.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Add FLG series LED lamp models.
2. Add new different enclosure and construction of diffuser.
3. Add rated supply voltage parameters.
4. Add new type of LED diode 2835.
5. Add certified driving power supply and emergency power supply.
6. Add certified cable glands, terminal blocks, and stopping plugs.
7. Additional manufacturing location.
8. The explosion protection marking has been revised, and an assessment against IEC 60079-1:2014 has been added.

Annex:

[Annex to CoC IECEx TPS 22.0028X.pdf](#)



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Product Service

Annex to certificate: IECEx TPS 22.0028X **Issue No:** 2
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, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Model designation:

EX - ***W A D 18 D40 CCG A Q S 2 M -E
 1 2 3 4 5 6 7 8 9 10 11 12 13

Position:	Description
1	Explosion-proof
2	Rated power of the driver output: 20, 40...480 W 20=20 W, 40=40 W... 480=480 W
3	Product code: A, A2, A3, A4, B, B2, B3, B4, B5, BX, FLGA1, FLGA2, FLGA4, FLGA5, FLGB1, FLGB2, FLGB4, FLGB5
4	Dimmable option: D, Blank D: Dimmable, Blank: Non-dimmable
5	Color temperature: 18, 20,27...65 18=1800 K, 20=2000 K, 27=2700 K...65=6500 K
6	Beam angle: D40, D60, D90, D120, N6x7 D40=40 degrees, D60=60 degrees, D90=90 degrees, D120=120 degrees, N6x7=NEMA6x7
7	Diffuser type: Blank, CCG, CCP, CFP, CSG, FFG, FCG, FSG Blank = Clear Flat Glass, "CCG" = Clear Convex Glass, "CCP" = Clear Convex PC, "CFP" = Clear Flat PC, "CSG" = Clear Spherical Glass, "FFG" = Frosted Flat Glass, "FCG" = Frosted Convex Glass, "FSG" = Frosted Spherical Glass
8	Represents Driver Housing, it can be A, B, C, D, E, F, G, H, I, J, Blank, A2, A3, B1, B2, B3, C1, C2, C3, D1, D2, D3, E1, F1, I1, I2, I3. "A" = Driver Housing A, "B" = Driver Housing B, "C" = Driver Housing C, "D" = Driver Housing D, "E" = Driver Housing E, "F" = Driver Housing F, "G" = Driver Housing G, "H" = Driver Housing H, "I" = Driver Housing I, "J" = Driver Housing J, Blank = Driver Housing A1, "A2" = Driver Housing A2, "A3" = Driver Housing A3, "B1" = Driver Housing B1, "B2" = Driver Housing B2, "B3" = Driver Housing B3, "C1" = Driver Housing C1, "C2" = Driver Housing C2, "C3" = Driver Housing C3, "D1" = Driver Housing D1, "D2" = Driver Housing D2, "D3" = Driver Housing D3, "E1" = Driver Housing E1, "F1" = Driver Housing F1, "I1" = Driver Housing I1, "I2" = Driver Housing I2, "I3" = Driver Housing I3
9	Represents Lamp Enclosure Heatsink, it can be O, Blank, P "O" = Lamp Enclosure Heatsink O, Blank = Lamp Enclosure Heatsink Q, "P" = Lamp Enclosure Heatsink P
10	Represents a number for Lens Cover, it can be Blank or S Blank = Alternate Lamp Enclosure Cover 1 (Normal cover), "S" = Lamp Enclosure Cover 1 (Step cover).
11	Designates for LED type, it can be 1, 2 "1" = 5050, "2" = 2835
12	Input rating: Blank: 100-277 V AC, M: 200-277 V AC, D: 125-270 V DC
13	Emergency power: Blank or -E: Blank: No emergency power, -E: With emergency power



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 Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Model difference:

- The main differences between different models of luminaires lie in their structural shape and physical dimensions.
- For other information, please refer to the technical data.

Technical data:

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
EX-***WA*****	60	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	80	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
	100	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
	120	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +50 °C	T5 / T95°C
EX-***WA****C**** (A series, C enclosure structure)	120	-40 °C to +45 °C	T6 / T80°C
	150	-40 °C to +55 °C	T5 / T95°C
EX-***WA****E**** (A series, E enclosure structure)	120	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	150	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WA****F**** (A series, F enclosure structure)	120	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	150	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WA2*****	40	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	60	-40 °C to +50 °C	T6 / T80°C



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Building 6, Building 3 Room 103, Building 3 Floor 8/9/10/11 Tian'an Digital City, No.88

Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China

Equipment:

Explosion-proof LED lamp, Type: EX-***W***** series

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
	80	-40 °C to +65 °C	T5 / T95°C
		-40 °C to +40 °C	T6 / T80°C
	100	-40 °C to +55 °C	T5 / T95°C
		-40 °C to +45 °C	T4 / T100°C
EX-***WA2***C**** (A2 series, C enclosure structure)	100	-40 °C to +45 °C	T4 / T100°C
EX-***WA2***E**** (A2 series, E enclosure structure)	100	-40 °C to +55 °C	T4 / T100°C
EX-***WA2***F**** (A2 series, F enclosure structure)	100	-40 °C to +55 °C	T4 / T100°C
EX-***WA3*****	60	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	80	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	100	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	150	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	180	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	200	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	240	-40 °C to +50 °C	T5 / T95°C



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 Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
		-40 °C to +55 °C	T4 / T100°C
EX-***WA3****C***** (A3 series, C enclosure structure)	200	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	240	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WA3****E***** (A3 series, E enclosure structure)	200	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	240	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
EX-***WA3*****-E (with emergency power supply)	60	-10 °C to +60 °C	T6 / T80°C
	80	-10 °C to +50 °C	T6 / T80°C
	100	-10 °C to +45 °C	T6 / T80°C
	150	-10 °C to +45 °C	T5 / T95°C
EX-***WA3****F***** (A3 series, F enclosure structure)	200	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	240	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
EX-***WA4*****	100	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	200	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	250	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	300	-40 °C to +40 °C	T6 / T80°C



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Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China
Explosion-proof LED lamp, Type: EX-***W***** series

Issue No: 2

Equipment:

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	350	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	400	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
	480	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +50 °C	T4 / T100°C
EX-***WA4***E***** (A4 series, E enclosure structure)	400	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	450	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
	480	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WA4***F***** (A4 series, F enclosure structure)	400	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	450	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
	480	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WA4*****-E (with emergency power supply)	60	-10 °C to +60 °C	T6 / T80°C
	80	-10 °C to +50 °C	T6 / T80°C
	100	-10 °C to +45 °C	T6 / T80°C
	150	-10 °C to +45 °C	T5 / T95°C
	200	-10 °C to +55 °C	T5 / T95°C
EX-***WB2*****	40	-40 °C to +60 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	50	-40 °C to +45 °C	T6 / T80°C



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Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Issue No: 2

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	60	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	80	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	100	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WB*****	50	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	60	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	80	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	100	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	120	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	150	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WB3*****	60	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
EX-***WB3*****-E (with emergency power supply)	60	-10 °C to +60 °C	T6 / T80°C



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Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China

Equipment:

Explosion-proof LED lamp, Type: EX-***W***** series

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
EX-***WB3*****	80	-40 °C to +60 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
EX-***WB3*****-E (with emergency power supply)	80	-10 °C to +50 °C	T6 / T80°C
EX-***WB3*****	100	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
EX-***WB3*****-E (with emergency power supply)	100	-10 °C to +45 °C	T6 / T80°C
EX-***WB3*****	150	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
EX-***WB3*****-E (with emergency power supply)	150	-10 °C to +45 °C	T5 / T95°C
EX-***WB3*****	200	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	240	-40 °C to +55 °C	T4 / T100°C
EX-***WB4*****	150	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	250	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	300	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	400	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C



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Jinyuan Road, Zhongtang Town, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Issue No: 2

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
	480	-40 °C to +65 °C	T4 / T100°C
		-40 °C to +40 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WB4***A2*** (B4 series, A2 enclosure structure)	400	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	450	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	480	-40 °C to +40 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
EX-***WB4*****-E (with emergency power supply)	60	-10 °C to +60 °C	T6 / T80°C
	80	-10 °C to +50 °C	T6 / T80°C
	100	-10 °C to +45 °C	T6 / T80°C
	150	-10 °C to +45 °C	T5 / T95°C
	200	-10 °C to +55 °C	T5 / T95°C
EX-***WB5*****	40	-40 °C to +60 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	80	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	100	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	120	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	150	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C



IECEx Certificate of Conformity



Product Service

Annex to certificate:
Applicant:

IECEx TPS 22.0028X
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, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Issue No: 2

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
EX-***WBX*****	60	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	100	-40 °C to +55 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	180	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	200	-40 °C to +50 °C	T5 / T95°C
		-40 °C to +60 °C	T4 / T100°C
	240	-40 °C to +55 °C	T4 / T100°C
EX-***WBX*****-E (with emergency power supply)	60	-10 °C to +60 °C	T6 / T80°C
	80	-10 °C to +50 °C	T6 / T80°C
	100	-10 °C to +45 °C	T6 / T80°C
	150	-10 °C to +45 °C	T5 / T95°C
EX-***WFLGA1***** EX-***WFLGB1*****	30	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
EX-***WFLGA2***** EX-***WFLGB2*****	50	-10 °C to +55 °C	T6 / T80°C
	60	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
	80	-40 °C to +45 °C	T5 / T95°C
		-40 °C to +55 °C	T4 / T100°C
EX-***WFLGA2*****-E EX-***WFLGB2*****-E (with emergency power supply)	50	-10 °C to +55 °C	T6 / T80°C
EX-***WFLGA4***** EX-***WFLGB4*****	60	-40 °C to +65 °C	T6 / T80°C
	100	-40 °C to +45 °C	T6 / T80°C



IECEx Certificate of Conformity



Product Service

Annex to certificate: IECEx TPS 22.0028X **Issue No:** 2
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, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

Model	Max. input power (W)	Ambient Temp.	Temp. Class (Gas/dust)
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	150	-40 °C to +40 °C	T6 / T80°C
		-40 °C to +55 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
EX-***WFLGA4*****-E EX-***WFLGB4*****-E (with emergency power supply)	100	-10 °C to +50 °C	T6 / T80°C
		-10 °C to +55 °C	T5 / T95°C
EX-***WFLGA5***** EX-***WFLGB5*****	80	-40 °C to +65 °C	T6 / T80°C
		-40 °C to +70 °C	T5 / T95°C
	100	-40 °C to +45 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	150	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +65 °C	T5 / T95°C
		-40 °C to +70 °C	T4 / T100°C
	180	-40 °C to +50 °C	T6 / T80°C
		-40 °C to +60 °C	T5 / T95°C
		-40 °C to +65 °C	T4 / T100°C
EX-***WFLGA5*****-E EX-***WFLGB5*****-E (with emergency power supply)	100	-10 °C to +55 °C	T6 / T80°C

Routine tests:

100% routine testing must be performed by the manufacturer.

- In accordance with Clause 9.1 of IEC 60079-18:2017, each piece of equipment with protection level "m" shall be subjected to a visual inspection, and no obvious damage shall be evident.
- A test voltage of 1554 V AC (48 Hz ~ 62 Hz) shall be applied between the power supply circuit and the metal enclosure for a duration of not less than 1 minute. Alternatively, the test may be carried out at 1.2 times the specified test voltage for at least 100 ms. No dielectric breakdown shall occur during the test. For details, refer to Clause 7.1 of IEC 60079-7:2017.

Title: Annex to CoC
 Certificate No.: IECEx TPS 22.0028X
 Issue No: 2
 Date of issue: 2026-08-03
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TÜV SÜD Product Service GmbH
 Certification Body for Products
 Ridlerstraße 65
 D-80339 Munich
 Germany



IECEx Certificate of Conformity



Product Service

Annex to certificate: IECEx TPS 22.0028X **Issue No:** 2
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, 523227 Dongguan City, Guangdong Province, P. R. China
Equipment: Explosion-proof LED lamp, Type: EX-***W***** series

3. The dielectric strength test voltage for the encapsulated LED board shall be determined according to the output voltage (U) of the LED driver:

- When the peak value of U does not exceed 90 V, the test voltage shall be: 500 V AC, or 700 V DC.
- When the peak value of U exceeds 90 V, the test voltage shall be: $2U + 1000$ V AC (48 Hz ~ 62 Hz), with a minimum value of 1500 V AC; or $2U + 1400$ V DC, with a minimum value of 2100 V DC.

The test voltage shall be raised smoothly to the specified value over a period of not less than 10 seconds and maintained at that value for at least 60 seconds. No dielectric breakdown shall occur during the test. For details, refer to Clause 9.2 of IEC 60079-18:2017.