



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 21.0025X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2022-01-13
Applicant: **Dongguan Pan American Electronics Co., Ltd.**
No.175 BeiWang Road
Zhongtang Town
DongGuan City, GuangDong Province 523227
China
Equipment: **LED hand lamp**
Optional accessory: EX-10W-WKC1YZDA, EX-10W-WKC2YZDA
Type of Protection: **Increased safety "ec", intrinsic safety "ic", dust ignition protection by enclosure "tc"**
Marking: Ex ec ic IIC T4 Gc
Ex ic tc IIC T135°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Ing. Kristof De Gersem, MSc.

Position:

Technical Certifier

Signature:
(for printed version)

Date:

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:

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



Product Service



IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 21.0025X**

Page 2 of 4

Date of issue: 2022-01-13

Issue No: 0

Manufacturer: **Dongguan Pan American Electronics Co., Ltd.**
No.175 BeiWang Road
Zhongtang Town
DongGuan City, GuangDong Province 523227
China

Additional
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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[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/ExTR21.0031/00](#)

Quality Assessment Report:

[CN/NEP/QAR19.0007/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 21.0025X**

Page 3 of 4

Date of issue: 2022-01-13

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment:

The LED hand lamp is intended for use in Group II, Zone 2 IIC T4 gas explosive atmospheres and Zone 22 IIIC T135°C dust explosive atmospheres.

The equipment is powered by battery. The on/off switch and two indication LEDs are protected by intrinsic safety "ic", others are protected by increased safety "ec" and ignition protection by enclosure "tc".

Model Explanation:

EX	- Explosion-proof products
10W	- Product power, 10W
WKC(12)	- Product model
Y	- Photosensitive type
Z	- Colour
D	- Angle
A	- Type of glass

Model difference:

	EX-10W-WKC1YZDA	EX-10W-WKC2YZDA
Appearance	The shape of the lampshade is a semicircle spherical structure	The shape of the lampshade is semi-ellipsoid structure
The lampshade material	PC material	Toughened glass material
Number of cable glands	There are two	None
Number of beads	54 LED beads	3 LED beads
Lamp PCB layout	Refer to EX-10W-WKC1YZDA-109 and EX-10W-WKC1YZDA-110	Refer to EX-10W-WKC2YZDA-103
Switch PCB	Refer to EX-10W-WKC1YZDA-111	Refer to EX-10W-WKC2YZDA-104

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature: -10°C to +60°C.
2. The battery pack used is not replaceable.
3. The equipment shall be charged in a non-hazardous area. Charging adaptor: manufacturer Dongguan Guanjin Electronics Technology Co., Ltd, model K25V120150G, rated input 100-240Va.c., 50/60Hz, 0.6A, rated output 12.0Vd.c., 1.5A.
4. The equipment shall be indoor used only.



IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 21.0025X**

Page 4 of 4

Date of issue: 2022-01-13

Issue No: 0

Equipment (continued):

Technical data:

- Rated power: 10W
- Rated voltage: 11.1V
- Charging voltage: 12.65V
- Rated capacity: 2.6Ah
- Beam angle: 120°

Warning label:

WARNING – DO NOT CHARGE IN A HAZARDOUS AREA

WARNING – DO NOT OPEN WHEN ENERGIZED

Installation instruction:

See installation instructions provided by the manufacturer.

Routine test:

100% routine test has to be done by manufacturer.

Dielectric test shall be carried out. An AC voltage of 600V r.m.s shall be applied between electric circuits and enclosure, for a duration of 100ms. There shall be no dielectric breakdown occurs.

Equipment used subjected to separated certificate

Apparatus	Type	Manufacturer	Ex rating	Certificate no.
Cable gland	MSKE, M12*1.5	WISKA Hoppmann GmbH	Ex eb IIC Gb Ex tb IIIC Db	IECEX PTB 13.0027X