



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 TUR 17.0058X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2018-06-12\)](#)
Date of Issue: 2021-06-01
Applicant: **TOP HI-TECH CO.,LTD.**
9F.,No.1, Zhongshan Rd.,Tucheng Dist.,New Taipei City 23680
Taiwan
Equipment: **Universal Explosion Proof LED Lighting**
Optional accessory: THTE1701ACK*A*-*
Type of Protection: **Equipment protection by flameproof enclosures "db",Equipment dust ignition protection by enclosure "tb"**
Marking: Ex db IIC T5 Gb
Ex tb IIIC T95°C Db (-20°C≤Ta≤+50°C)
Ex db IIC T6 Gb
Ex tb IIIC T80°C Db (-20°C≤Ta≤+40°C)

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. He Mei

Position:

Assigned certifier

Signature:
(for printed version)

He Mei

Date:

2021-06-01

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:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: **TOP HI-TECH CO.,LTD.**
9F.,No.1, Zhongshan Rd.,Tucheng Dist.,New Taipei City 23680
Taiwan

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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

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/TUR/ExTR17.0058/01](#)

Quality Assessment Reports:

[DE/TUR/QAR13.0016/00](#)
[DE/TUR/QAR13.0016/03](#)

[DE/TUR/QAR13.0016/01](#)

[DE/TUR/QAR13.0016/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description:

The lamp Universal Explosion Proof LED Lighting type THTE1701ACK*A*-* is designed according to the standard structure of the IEC 60079-0, IEC 60079-1 and IEC 60079-31. The suitable hazardous areas are zone1, zone2, zone21 and zone22.

The enclosure of lamp is made by aluminium alloy (ADC12).

The method of lamp mounting includes pendant, wall, adjustable trunnion mounting bracket, electrical tube mounting.

The external earthing of enclosure is provided.

Subject and type:

Universal Explosion Proof LED Lighting. Type THTE1701ACK*A*-*

Parameters:

Electrical parameters

Rated voltage: 100 Vac~277 Vac ($\pm 10\%$), 50 & 60 Hz

Rated power: 60W, 80W, 100W

Thermal parameters

Temperature class: T5($-20^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$) or T6($-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$)

Maximum surface temperature: 82.3°C ($-20^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$) or 72.3°C ($-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Do not clean or rub when an explosive atmosphere may be present.
2. A copper plate used as one part of flameproof joint, and the safe use information in the instruction for the copper shall be observed strictly.
3. The maximum cable length from conductor branching point of cable gland to inside flameproof enclosure no more than 16.5 cm when installed.
4. Maintenance work is not permitted on flameproof enclosures. Repairs are only to be carried out by the manufacturer.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change the source of the LED driver. Previous model would be replaced by the new model XLG-75 and XLG-100 series.
- Change the working voltage range from 120~277 Vac to 100~277 Vac.
- Change maximum ambient temperature from 55°C to 50°C. Temperature class is updated to T5 and T6 accordingly.

Annex:

[DE-IECEX_TUR_17.0058X_01_Attachment.pdf](#)



Attachment to Certificate IECEX TUR 17.0058 X

Device: Universal Explosion Proof LED Lighting
THTE1701ACK*A*.*

Manufacturer: TOP HI-TECH CO., LTD.

Address: 9F.,No.1, Zhongshan Rd.,Tucheng Dist.,New Taipei City 23680,
Taiwan

General product information:

Description:

The lamp Universal Explosion Proof LED Lighting type THTE1701ACK*A*.* is designed according to the standard structure of the IEC 60079-0, IEC 60079-1 and IEC 60079-31. The suitable hazardous areas are zone1, zone2, zone21 and zone22.

The enclosure of lamp is made by aluminium alloy (ADC12).

The method of lamp mounting includes pendant, wall, adjustable trunnion mounting bracket, electrical tube mounting.

The external earthing of enclosure is provided.

Subject and type:

Universal Explosion Proof LED Lighting. Type THTE1701ACK*A*.*

THT	E	1701	A	C	K	C	A	J0	-S25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

- (1) Brand name, THT = Top Hi-Tech Co., Ltd
- (2) Category of product, E = Explosion proof lighting fixtures
- (3) Model name, 1701 = Model L1701 series
- (4) Sub-series designation
- (5) Designates type of Top Cover, C = Top Cover with opening
- (6) Designates type of LED module, K = SMD LED
- (7) Designates C.C.T of LED, C = Cool white, W = Warm white
- (8) Designates voltage, A=100~277Vac
- (9) Designates wattage of LED lighting, J0 = 100W, H0=80W, F0=60W
- (10) Mounting type, detailed information referred to the user manual.

Parameters:

Electrical parameters

Rated voltage 100 Vac~277 Vac (±10%), 50 & 60 Hz
Rated power 60W, 80W, 100W

Thermal parameters

Temperature class T5(-20°C≤Ta≤+50°C)
T6(-20°C≤Ta≤+40°C)

Maximum surface temperature 82.3°C (-20°C≤Ta≤+50°C)
72.3°C (-20°C≤Ta≤+40°C)