



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx TUR 18.0039X Issue No: 0 Certificate history:
Issue No. 0 (2019-07-09)

Status: **Current**

Date of Issue: **2019-07-09** Page 1 of 3

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

Equipment: **Universal Explosion Proof LED Lighting, Model THTH1319**H*****
Optional accessory:

Type of Protection: **Equipment protection by type of protection "nR", Equipment dust ignition protection by enclosure "tb"**

Marking:
Ex nR IIC T5 Gc
Ex tb IIIC T95°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Yang Wang

Position:

Assigned certifier

Signature:
(for printed version)

Wang Yang

Date:

2019.07.09

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 the [Official IECEx Website](http://www.iecex.com).

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 location(s):

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 apparatus 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

This Certificate does not indicate compliance with electrical 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/ExTR18.0039/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The lamp Universal Explosion Proof LED Lighting type THTH1319**H*** is designed according to the standard structure of the IEC 60079-0, IEC 60079-15 and IEC 60079-31. The suitable hazardous areas are zone2, zone21 and zone22.
The enclosure of lamp is made from Aluminium alloy (AL 6063 T5 and AL 6061 T6).
The external earthing of enclosure is provided.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Do not clean or rub when an explosive atmosphere may be present.
2. For type of protection "nR" lamps, the gasket on the enclosure of LED Lighting with a replacement frequency of 5 years (must be replaced immediately when the gaskets are damaged). Information about the testing procedure after installation during initial inspection and during maintenance are specified in the instruction shall be observed.

Annex:

[DE-IECEx_TUR_18.0039X_00_Attachment_2019-07-09.pdf](#)



Attachment to Certificate
IECEX TUR 18.0039X
Revision 0

Attachment to Certificate IECEX TUR 18.0039X

Device: Universal Explosion Proof LED Lighting
Types: THTH1319**H*** series

Manufacturer: TOP HI-TECH CO., LTD.

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

General product information:

Description

This report covers the following types:

THT	H	1319	C	N	H	C	9	F0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

- (1) Brand name, THT = Top Hi-Tech Co., Ltd
- (2) Protection type of luminaire, H = HazLoc LED Lighting
- (3) Model name, 1319 = Model L1319 series
- (4) Series type, C = L1319C type for 2ft. , D = L1319C type for 4ft.
- (5) Designates type of Top Cover, N =without Top Cover, C =with Top Cover
- (6) Designates type of LED module, H=SMD type LED
- (7) Designates CCT of LED, C = Cool white, W = Warm white
- (8) Designates voltage of LED module, 1=110 Vac , 2 = 220 Vac, 9 = 277 Vac
- (9) Designates wattage rating of the luminaire, D0=40W, F0=60W, H0=80W, L0=120W

The lamp Universal Explosion Proof LED Lighting type THTH1319**H*** is designed according to the standard structure of the IEC 60079-0, IEC 60079-15 and IEC 60079-31. The suitable hazardous areas are zone2 and zone21, zone22.

The enclosure of lamp is made from Aluminium alloy and Stainless steel (AL 6063 T5 and SUS304). The external earthing of enclosure is provided.

Technical Data

Electrical data

- THTH1319CNH*1D0 – 110 Vac, 50/60 Hz, 40 W (2ft)
- THTH1319CNH*1F0 – 110 Vac, 50/60 Hz, 60 W (2ft)
- THTH1319CNH*2D0 – 220 Vac, 50/60 Hz, 40 W (2ft)
- THTH1319CNH*2F0 – 220 Vac, 50/60 Hz, 60 W (2ft)
- THTH1319CNH*9D0 – 277 Vac, 50/60 Hz, 40 W (2ft)
- THTH1319CNH*9F0 – 277 Vac, 50/60 Hz, 60 W (2ft)
- THTH1319DCH*1D0 – 110 Vac, 50/60 Hz, 40 W (4ft)
- THTH1319DCH*1F0 – 110 Vac, 50/60 Hz, 60 W (4ft)
- THTH1319DCH*1H0 – 110 Vac, 50/60 Hz, 80 W (4ft)
- THTH1319DCH*1L0 – 110 Vac, 50/60 Hz, 120 W (4ft)
- THTH1319DCH*2D0 – 220 Vac, 50/60 Hz, 40 W (4ft)
- THTH1319DCH*2F0 – 220 Vac, 50/60 Hz, 60 W (4ft)
- THTH1319DCH*2H0 – 220 Vac, 50/60 Hz, 80 W (4ft)
- THTH1319DCH*2L0 – 220 Vac, 50/60 Hz, 120 W (4ft)



Attachment to Certificate
IECEX TUR 18.0039X
Revision 0

THTH1319DCH*9D0 – 277 Vac, 50/60 Hz, 40 W (4ft)
THTH1319DCH*9F0 – 277 Vac, 50/60 Hz, 60 W (4ft)
THTH1319DCH*9H0 – 277 Vac, 50/60 Hz, 80 W (4ft)
THTH1319DCH*9L0 – 277 Vac, 50/60 Hz, 120 W (4ft)

Environmental data

Ambient temperature range -20°C to +55°C

Notes for manufacturer and operation:

Dielectric strength test shall be executed between the input terminals and the enclosure according to clause 23.2.1 of IEC 60079-15. Test voltage: 1554 V r.m.s, test duration:60s.