



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 UL 22.0017X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-05-27

Applicant: **Top Hi-Tech Co., Ltd.**
9F, No. 1, Zhongshan Rd.
Tucheng District
New Taipei City, 236
Taiwan

Equipment: **LED Luminaires, Model L2106 Series – Models THTH2106D and THTH2106C Series**

Optional accessory:

Type of Protection: **Restricted Breathing "nR", Dust ignition Protection by Enclosure "tb"**

Marking: Ex nR IIC T6 Gc
Ex tb IIIC T85°C Db
-20°C ≤ Ta ≤ +40°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2022-05-27

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Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturing
locations: **Top Hi-Tech Co., Ltd.**
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New Taipei City, 236
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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 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[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:

[US/UL/ExTR22.0019/00](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Model L2106 Series of LED luminaires is suitable for use in hazardous location classified as Zone 2 and Zone 21. This luminaire consists of "nR"/"tb" LED array chamber.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – see instructions.
- The luminaire does not have a test port fitted. (only for nR certificate)
- The gasket not to be replaced in the field.

Annex:

[Annex to IECEx UL 22.0017X Issue 0.pdf](#)



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TYPE DESIGNATION

Nomenclature for luminaires:

The complete luminaire catalogue number example is as follows:

Cat.	THT	H	2106	D	D	W	H	C6
No.	1	2	3	4	5	6	7	8

1 – Brand name

THT = Top Hi-Tech Co., Ltd.

2 – Category of product

H = HazLoc LED luminaire

3 – Model name

2106 = Model L2106 Series

4 – Designates length of luminaires

D = 4ft length (For 36W and 40W only)

C = 2ft length (For 18W and 20W only)

5 – Designates type of top cover

D = Top Cover without opening

6 – Designates CCT of LED

W = Warm white (For 18W and 36W only)

N = Natural white (For 18W and 36W only)

D = Daylight (For 18W and 36W only)

C = Cool white (For 18W and 36W only)

Y = Yellow (For 20W and 40W only)

7 – Designates voltage of luminaire

H = 100~277 Vac

8 – Designates wattage of luminaire

C6 = 36W (For 4ft length only)

A8 = 18W (For 2ft length only)

D0 = 40W (For 4ft length and yellow CCT only)

B0 = 20W (For 2ft length and yellow CCT only)

Models covered are as follows:

Models	Ambient Temperature Range	'nR' Temperature Code	'tb' Temperature Rating
THTH2106DDxHC6	-20°C to +40°C	T6	T85°C
THTH2106DDYHD0	-20°C to +40°C	T6	T85°C
THTH2106CDxHA8	-20°C to +40°C	T6	T85°C
THTH2106CDYHB0	-20°C to +40°C	T6	T85°C

x can be W, N, D or C



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PARAMETERS RELATING TO THE SAFETY

Electrical Rating:

Models	Voltage (Vac)	Frequency (Hz)	Wattage (W)
THTH2106DDxHC6	100~277	50/60	36
THTH2106DDYHD0	100~277	50/60	40
THTH2106CDxHA8	100~277	50/60	18
THTH2106CDYHB0	100~277	50/60	20
x can be W, N, D or C			

MARKING

Marking has to be readable and indelible; it has to include the following indications:

<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. New Taipei City, 236, Taiwan.(R.O.C) Model: THTH2106DDYHD0 UL 22 ATEX 2666X UL 22 ATEX 2665X CE II 2 G Ex nR IIC T6 Gc CE0035 II 2 D Ex tb IIIC T85°C Db Ta: -20°C~+40°C SN: 2201-001 V: 100-277Vac ,50/60Hz W: 40W IP67</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. New Taipei City, 236, Taiwan.(R.O.C) Model: THTH2106DD①HC6 UL 22 ATEX 2666X UL 22 ATEX 2665X CE II 2 G Ex nR IIC T6 Gc CE0035 II 2 D Ex tb IIIC T85°C Db Ta: -20°C~+40°C SN: 2201-001 V: 100-277Vac ,50/60Hz W: 36W IP67</p>
<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. New Taipei City, 236, Taiwan.(R.O.C) Model: THTH2106CDYHB0 UL 22 ATEX 2666X UL 22 ATEX 2665X CE II 2 G Ex nR IIC T6 Gc CE0035 II 2 D Ex tb IIIC T85°C Db Ta: -20°C~+40°C SN: 2201-001 V: 100-277Vac ,50/60Hz W: 20W IP67</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. New Taipei City, 236, Taiwan.(R.O.C) Model: THTH2106CD①HA8 UL 22 ATEX 2666X UL 22 ATEX 2665X CE II 2 G Ex nR IIC T6 Gc CE0035 II 2 D Ex tb IIIC T85°C Db Ta: -20°C~+40°C SN: 2201-001 V: 100-277Vac ,50/60Hz W: 18W IP67</p>

①: W= Warm white /N= Natural white /D= Daylight /C= Cool white

<p>WARNING</p>	"WARNING – The luminaire shall not be opened."
	"WARNING – Potential Electrostatic Charging Hazard – See Instructions"
	"WARNING - The luminaire does not have a test port fitted"
	"WARNING-The gasket not to be replaced in the field"

SN number description as show the follow:

-22 means 2022.

-01 means first weeks.

-001 means number of product.



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ROUTINE EXAMINATIONS AND TESTS

Each piece of equipment defined above has to have successfully passed; before delivery:

- Routine dielectric strength testing according to clause 12.1 of IEC 60079-15 is required.
- Routine restricted breathing testing according to clause 12.2.2.1.2 of IEC 60079-15 is required.