



# 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](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX KTL 19.0044U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-01-02

Applicant: **SUNIL ELECOMM CO., LTD.**  
21-19, Jangsu-ro 342beon-gil, Jangsu-myeon, Yeongju-si  
Gyeongsangbuk-do 36145  
Korea, Republic of

Ex Component: LED Converter, EXLED LC

*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*

Type of Protection: **Increased safety "e", Encapsulation "m"**

Marking: Ex eb mb IIC T5 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

**Park, Jong-koo**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2020-01-02

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Korea Testing Laboratory**  
87, Digital-ro, 26-gil, Guro-gu  
Seoul  
Korea, Republic of





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Gyeongsangbuk-do 36145  
**Korea, Republic of**

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 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

KR/KTL/ExTR19.0039/00

Quality Assessment Report:

KR/KTL/QAR18.0004/00



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## Ex Component(s) covered by this certificate is described below:

The Ex component, LED converter, is for LED lamps. The circuit is encapsulated and termination compartments are provided. Because LED converter is certified as Ex Component, it is impractical for end-user to measure the maximum surface temperature by considering the fault condition and to define the temperature class. The maximum surface temperature of the LED converter is limited by means of the thermal protective device in accordance with IEC 60079-18. The temperature class is determined by considering the thermal protective device.

### Operating temperature

-35 °C ~ +70 °C

### Electrical data

Input Voltage: (100-250) Vac, (50/60) Hz

Input Current: (0.09-0.45) Aac

Output ratings: (60/120) Vdc, 300 mA

### SCHEDULE OF LIMITATIONS:

1. When it is installed in the Ex e enclosures, creepage distance and clearance shall be taken into account.
2. It has an output rating of (60/120) Vdc and 300 mA. The current is limited to 0.535 mA and breaking capacity of 1500 A.
3. The appropriate torque shall be applied in accordance with Instructions.
4. The field wiring connections are not allowed.