



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

Certificate No.: IECEx UL 16.0015X Issue No: 0 Certificate history:  
Issue No. 0 (2016-06-03)

Status: **Current** Page 1 of 4

Date of Issue: **2016-06-03**

Applicant: **Day Sun Technology Ltd**  
No. 1, Alley 2,  
Lane 110, Sec. 4,  
Hsi-Men Road, North District,  
Tainan City, 704  
**Taiwan**

Electrical Apparatus: **Intrinsically Safe Flashlight, Models DS-19, DS-19 Z1**  
*Optional accessory:*

Type of Protection: **Intrinsic Safety, "ia,ib"**

Marking:

Models DS-19: Ex ia I Ma, Ex ia IIC T5 Ga

Models DS-19 Z1: Ex ib I Mb, Ex ib IIC T5 Gb

-20°C ≤ Ta ≤ +40°C

Approved for issue on behalf of the IECEx  
Certification Body:

Erin LaRocco

Position:

Senior Project Engineer

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

Certificate issued by:



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





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Date of Issue: 2016-06-03 Page 3 of 4  
Manufacturer: **Day Sun Technology Ltd (opposite Lane from the applicant address)**  
No. 22, Lane 126, Sec. 4,  
Hsi-Men Road, North District,  
Tainan City, 704  
**Taiwan**

Additional Manufacturing  
location(s):

**Guangzhou Dashin Optoelectronics & Jewellery Co., Ltd**  
No. 7, 2 Road, Sandong Industrial Park, Sandong Village, Xinhua Town,  
Huadu District, Guangzhou City,  
Guangdong Province  
China

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 electrical 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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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:

[US/UL/ExTR16.0019/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0007/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Models DS-19 and DS-19 Z1 are portable, hand-held flashlights powered by two size "AAA" alkaline batteries , connected in series. These models are available in three different color enclosures: yellow, black, and orange. The batteries are only to be replaced in a non-hazardous location. The following batteries were considered acceptable for use in the flashlight:

A lkaline type Model E92 manufactured by Energizer

A lkaline type Model MN2400 manufactured by Duracell

A lkaline type Model LR03 manufactured by Panasonic

A lkaline type Model LR03 manufactured by Rayovac

### CONDITIONS OF CERTIFICATION: YES as shown below:

Read manual before use .

Do not open the enclosure in a hazardous area.

Replace batteries only in non-hazardous areas .

Use only battery type Energizer E92, Duracell MN2400, Panasonic LR03, or Rayovac LR03.

To reduce the risk of explosion, do not mix new batteries with used batteries, or mix batteries from different manufacturers or from different types .

The screw shall be secured tightly after opening and closing the enclosure .