



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX2166X** Issue: **0**

4 Equipment: **Flashlight, Model SF-14**

5 Applicant: **Day Sun Technology Ltd.**

6 Address: **No. 1, Alley 2
Lane 110
Sec. 4, Hsi-men Rd.
North District, Tainan City 704
Taiwan**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013 EN 60079-11:2012 EN 60079-26:2015

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



I M1
Ex ia I Ma



II 1G
Ex ia IIC T4 Ga

Project Number 70021336

A C Smith
Certification Manager

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Sira Certification Service
Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX2166X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The SF-14 is a portable, hand-held intrinsically safe flashlight for use in hazardous locations and powered by four AA size alkaline batteries. It has high and low mode operating functions that allows users to operate with high brightness or long duration lighting. Externally the device comprises: a body assembly, a tail assembly, a cap assembly and a heatsink. Internally, the device comprises three PCBs (BAT PCB, CON PCB and LED PCB), reflector and heatsink. The assembly meets the ingress protection requirements for IP54.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	29 June 2015	R70021336A	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 No precautions against electrostatic discharge are necessary for portable equipment that has an enclosure made of plastic, metal or a combination of the two, except where a significant static-generating mechanism has been identified. Activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth, do not present a significant electrostatic risk. However, where a static-generating mechanism is identified, such as repeated brushing against clothing, then suitable precautions shall be taken, e.g. the use of anti-static footwear

15.2 Only the following batteries may be used in the model SF-14 Flashlight:

- Energizer type E91 alkaline.
- Duracell type MN1500 alkaline
- Rayovac type AL-AA (815) alkaline
- Varta type 4906 alkaline

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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Certificate Annexe



Certificate Number: Sira 15ATEX2166X
Equipment: Flashlight, Model SF-14
Applicant: Day Sun Technology Ltd.

Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
EE BOM	1 of 1	V2	19 Jun 15	Electronic BOM
B008 ME-BOM	1 of 1	V2	19 Jun 15	Mechanical BOM
SF-14 ME-BOM	1 of 1	V3	19 Jun 15	Mechanical BOM
EL01.SF-14 LED PCB	1 of 1	V1	19 Jun 15	LED PCB
EL02.SF-14 CON PCB	1 of 1	V2	19 Jun 15	CON PCB
EL03.SF-14 BAT PCB	1 of 1	V1	19 Jun 15	BAT PCB
ES01.SF-14 Schematics	1 of 1	V2	19 Jun 15	Schematic
EX01.B008 Explode	1 of 1	V2	19 Jun 15	Exploded view – cell holder
EX01.SF-14 Explode	1 of 1	V2	19 Jun 15	Exploded view
L01.SF-14 Label	1 of 1	V1	29 Jun 15	Label
M01.B008 Holder Body	1 of 1	V2	19 Jun 15	Holder Body
M01.SF-14 Cap	1 of 1	V1	19 Jun 15	Cap
M02.B008 Holder Upper Cap	1 of 1	V2	19 Jun 15	Holder Upper Cap
M02.SF-14 Body	1 of 1	V2	19 Jun 15	Body
M03.B008 Holder Lower Cap	1 of 1	V2	19 Jun 15	Holder Lower Cap
M03.SF-14 Vent	1 of 1	V1	19 Jun 15	Vent
M04.SF-14 Button	1 of 1	V1	19 Jun 15	Button
M05.SF-14 Button Cover	1 of 1	V1	19 Jun 15	Button Cover
M06.SF-14 Heatsink	1 of 1	V1	19 Jun 15	Heatsink
M07.SF-14 O-Ring	1 of 1	V1	19 Jun 15	O-Ring
M08.SF-14 CON Bracket	1 of 1	V1	19 Jun 15	CON Bracket
M09.SF-14 Reflector	1 of 1	V2	19 Jun 15	Reflector
M10.SF-14 O-Ring	1 of 1	V1	19 Jun 15	O-Ring
M11.SF-14 O-Ring	1 of 1	V1	19 Jun 15	O-Ring
M12.SF-14 Tail	1 of 1	V1	19 Jun 15	Tail
M13.SF-14 Wire	1 of 1	V1	19 Jun 15	Wire

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