



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: **2012-05-03**

Applicant: **Pelican Products Inc**

Electrical Apparatus: **PELICAN Sabrelite 2010 LED**
Optional accessory:

Type of Protection: **Intrinsic Safety. ia Ga, Da**

Marking: Pelican Products
Ex ia IIC Ga T4 ... T3 Ga*
Ex ia IIIC T135°C ... T200°C Da IP6X*
*Refer to schedule.

Approved for issue on behalf of the IECEx
Certification Body: P Moss

Position: Certification Officer

Signature:
(for printed version)



3rd May 2012.

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.

Certificate issued by:
Intertek Testing & Certification Limited





IECEX Certificate of Conformity

Certificate No.: IECEx ITS 11.0023X
Date of Issue: 2012-05-03 Issue No.: 0
Manufacturer: Pelican Products Inc

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 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'ID'

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.



IECEx Certificate of Conformity

Certificate No.: IECEx ITS 11.0023X

Date of Issue: 2012-05-03

Issue No.: 0

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Sabrelite 2010 LED is a handheld flashlight suitable for use in Zone 0 or Zone 20 hazardous areas. It has a plastic enclosure made up of two parts, Battery housing (Hand grip) and lens with bezel. The lens bezel is internally threaded and screws onto an external thread on the battery compartment. An O-Ring seal is provided between the two enclosure parts. The flashlight switch is operated by twisting the lens bezel. The flashlight is powered by three Alkaline C Cells connected in series and a single high power LED with substantial heatsinking provides the light source. Protection for use in explosive gas and dust atmospheres is afforded by intrinsic safety ia.

The temperature class is dependent on which of the following battery types are fitted.

Energizer C Cell (E93)	Ex ia IIC T4 Ga (-20°C ≥ Ta ≥ +40°C) Ex ia IIIC T135°C Da IP6X (-20°C ≥ Ta ≥ +40°C)
Duracell C Cell (MN1400)	Ex ia IIC T145°C Ga (-20°C ≥ Ta ≥ +40°C) Ex ia IIIC T145°C Da IP6X (-20°C ≥ Ta ≥ +40°C)
Panasonic C Cell (LR14)	Ex ia IIC T3 Ga (-20°C ≥ Ta ≥ +40°C) Ex ia IIIC T200°C Da IP6X (-20°C ≥ Ta ≥ +40°C)

CONDITIONS OF CERTIFICATION: YES as shown below:

The equipment must be inspected for physical damage to the enclosure and O-ring seal before entering a hazardous area where it will be exposed to dust.



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INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

Certificate No.: issue No.:

Status:

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Applicant: **Pelican Products Inc**

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Optional accessory:

Type of Protection: **Intrinsic Safety. ia Ga, Da**

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Ex ia IIC Ga T4 ... T3 Ga*
Ex ia IIIC T135°C ... T200°C Da IP6X*
*Refer to schedule.

*Approved for issue on behalf of the IECEx
Certification Body:* P Moss

Position: Certification Officer

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Manufacturer: Pelican Products Inc

Manufacturing location(s):

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- | | |
|--|--|
| IEC 60079-0 : 2007-10
Edition: 5 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-11 : 2006
Edition: 5 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-26 : 2006
Edition: 2 | Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga |
| IEC 61241-11 : 2005
Edition: 1 | Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'iD' |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*



IECEx Certificate of Conformity

Certificate No.: IECEx ITS 11.0023X
Date of Issue: 2012-05-03 Issue No.: 0

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Sabrelite 2010 LED is a handheld flashlight suitable for use in Zone 0 or Zone 20 hazardous areas. It has a plastic enclosure made up of two parts, Battery housing (Hand grip) and lens with bezel. The lens bezel is internally threaded and screws onto an external thread on the battery compartment. An O-Ring seal is provided between the two enclosure parts. The flashlight switch is operated by twisting the lens bezel. The flashlight is powered by three Alkaline C Cells connected in series and a single high power LED with substantial heatsinking provides the light source. Protection for use in explosive gas and dust atmospheres is afforded by intrinsic safety ia.

The temperature class is dependent on which of the following battery types are fitted.

Energizer C Cell (E93)	Ex ia IIC T4 Ga (-20°C ≥Ta ≥ +40°C)Ex ia IIIC T135°C Da IP6X (-20°C ≥Ta ≥ +40°C)
Duracell C Cell (MN1400)	Ex ia IIC T145°C Ga (-20°C ≥Ta ≥ +40°C)Ex ia IIIC T145°C Da IP6X (-20°C ≥Ta ≥ +40°C)
Panasonic C Cell (LR14)	Ex ia IIC T3 Ga (-20°C ≥Ta ≥ +40°C)Ex ia IIIC T200°C Da IP6X (-20°C ≥Ta ≥ +40°C)

CONDITIONS OF CERTIFICATION: YES as shown below:

The equipment must be inspected for physical damage to the enclosure and O-ring seal before entering a hazardous area where it will be exposed to dust.



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.



Control Number: 3091325 Authorized by: *Patricia Stewart*
William T. Starr, Certification Manager

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Applicant: Pelican Products Manufacturer: Same as applicant

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Chester

Standards:	Electric Flashlights and Lanterns for use in Hazardous (Classified) Locations-Sixth Edition [UL 783 Reprint with Revisions Through and Including 18 July 2007] Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations [UL 913; Fifth Edition, Dated: 21 February 1997; Revisions Through and Including 24 February 1997] Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations [CSA-C22.2 No. 157-92; Including: General Instruction No. 1: June 1992 and Update No. 2: June 2003]
Product :	LED Flashlight For Use in: Class I, II, III, Division 1, Groups A, B, C, D, F and G hazardous locations Ambient Temperature Range: -20°C to +40°C Temperature Code: T4 using Energizer cells and T3 using Duracell and Panasonic cells.
Model:	2010 Recoil



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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Applicant: Pelican Products

Manufacturer: Pelican Products

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Lake Forest, Ca

Control Number: 3091325

Authorized by: *Chelsea Alexander*
William T. Starr, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

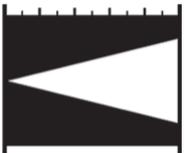
Standard(s):	Electric Flashlights and Lanterns for use in Hazardous (Classified) Locations-Sixth Edition [UL 783 Reprint with Revisions Through and Including 30 August 2011] Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations [UL 913; 5th Edition; Dated: February 21, 1997; Revisions Through and Including February 24, 1997] Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations [CSA-C22.2 No. 157-92; Including: General Instruction No. 1: June 1992 and Update No. 2: June 2003]
Brand:	Sabrelite 2010
Product:	LED Flashlight For Use in: Class I, II, III, Division 1, Groups A, B, C, D, F and G hazardous locations Ambient Temperature Range: -20°C to +40°C Temperature Code: T4 using Energizer cells and T3 using Duracell and Panasonic cells.
Models:	2010

Flashlight ANSI Standards

While Pelican was one of the first manufacturers to use quantifiable test procedures, the need was recognized to develop a common language that customers could use to select the right flashlight for their specific needs.

As a result, the American National Standards Institute (ANSI) with input from the flashlight industry, developed performance standards and symbols to effectively communicate a flashlight's features and benefits.

Resulting ANSI/NEMA FL 1 Standards include the six criteria described below:

	<p>LIGHT OUTPUT</p> <p>Light Output is the total luminous flux. It is the total quantity of emitted overall light energy as measured by integrating the entire angular output of the portable light source. Light output in this standard is expressed in units of lumens.</p>
	<p>RUN TIME</p> <p>Run Time is defined as the duration of time from the initial light output value – defined as 30 seconds after the point the device is first turned on – using fresh batteries, until the light output reaches 10% of the initial value.</p>
	<p>BEAM DISTANCE</p> <p>Beam Distance is defined as the distance from the device at which the light beam is 0.25 lux (0.25 lux is approximately the equivalent of the light emitted from the full moon "on a clear night in an open field").</p>
	<p>PEAK BEAM INTENSITY</p> <p>Peak Beam Intensity is the maximum luminous intensity typically along the central axis of a cone of light. The value is reported in candela and does not change with distance.</p>
	<p>IMPACT RESISTANCE</p> <p>Impact Resistance is the degree to which a device resists damage from dropping on a solid surface.</p>
	<p>IPX4 WATER PENETRATION RATINGS</p> <p>IPX4 - Water Resistance - Water splashed against the device from any direction shall have no harmful effects.</p>
	<p>IPX7 / IPX8 WATER PENETRATION RATINGS</p> <p>IPX7 - Water Proof - Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time.</p> <p>IPX8 - Submersible - Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be stated by manufacturer, but which are more severe than for IPX7.</p>

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)

These standards are accredited by ANSI, which is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States. The organization also coordinates U.S. standards with international standards so American products can be used globally.

GLOSSARY OF TERMS

Candela - A unit of measurement of the intensity of light that is, power emitted by a light source in a particular direction.

Lux - The unit of luminous flux in the International System, equal to the amount of light given out through a solid angle by a source of one candela intensity radiating equally in all directions.

Lumen - A unit of measurement of the amount of brightness that comes from a light source. Lumens define "luminous flux," which is energy within the range of frequencies we perceive as light.

Integrating Sphere - An integrating sphere is a measurement device with an entrance port that can accept all the directional light output of the device under test, or can totally enclose the device itself. The walls of the sphere should be highly diffuse with high reflectivity (>80%) and the spectroradiometer should be shielded from direct view of the device under test by a baffle system.

IP (Ingress Protection) - Ingress Protection (IP) ratings specify the environmental protection the enclosure provides. The IP rating normally has two numbers (IPXX). The first number represents protection from solid objects or materials (dust) where the second number represents protection from liquids (water). With the IP rating IP 54, 5 describes the level of protection from solid objects and 4 describes the level of protection from liquids.