

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: Ex Veritas 15ATEX0061X Issue: 7

4 Equipment: PELI 3315R and PELI 3335R

5 Manufacturer: Pelican Products Inc

6 Address: 23215 Early Avenue, Torrance, USA - CA 90505

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

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN IEC 60079-0: 2018

EN IEC 60079-11:2012

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 EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



II 1G Ex ia IIC T4 Ga
Ta = -20°C to +40°C

Schedule

13 Description of Equipment or Protective System

The '3315R Flashlight' and '3335R Flashlight' are portable torches used for illuminating dimly lit areas. They are intended to be used in areas classified as ATEX Category 1. The devices use an array of LED's which is controlled electronically to achieve different lighting effects and is intended to be held by the user during use ("hand-held"). Each device has a mechanism allowing the light source to be tilted 90 degrees.

Both variants of the device are identical except the '3335R Flashlight' charging input has a different geometry (rotated 90 degrees compared with 3315R) to ensure charging is done with the correct charger for that variant. Each device therefore has its own unique charger. The '3315R Flashlight' and '3335R Flashlight' have a battery compartment which can accept a single rechargeable cell which are suitably approved depending on the model type below.

Device (Part number)	Battery charger (Part number)	Battery type
3315R	3318	LG INR18650 F1L Panasonic UR18650-ZY
3335R	CHG05	Tenergy IFR-18650 (model 30064-0)

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Certificate Issue Date	Issue Number	Comment
R0667/A/1	22/12/2015	0	Initial issue of the Prime Certificate
R0667/B/1	05/12/2016	1	<p>The model types have been rearranged by Pelican and introduced at this revision. There are only two types of LED lights, one for EPL Ga (1G) and another for EPL Gb (2G) as shown in the marking. The difference is due the additional approvals received and the manufacturing place.</p> <p>The cell K2 18650E02 originally approved for the model 3315RZ0 has been replaced by the cell Tenergy IFR-18650 (model 30064-0) which has passed in the temperature classification T4.</p> <p>Resistor R9 at the LED Drive Board has been changed for a larger size, this component is now specified as 301Ω/0.250W/1%/0805 instead of 301Ω/0.125W/1%/0805.</p> <p>The documentation has been changed with minor editions that do not impair the intrinsic safety.</p> <p>Switch boot holder has been updated including the possibility to be made in PC/PBT.</p> <p>Body contact pin updated for the material SUS 301 STAINLESS STEEL.</p> <p>Switch boot pressing diameter changed – do not impair IP rating.</p>
R1861/A/1	14/01/2018	2	This issue has been compiled in order to include a new 18650 cell manufactured by LG which can be used as an alternative to the current Samsung 18650 cell for models PELI 3315RZ1, PELI3315R RA Z1. The device has been updated to EN 60079-26:2015 and EN 60079-28:2015
R2355/A/1	02/01/2020	3	Changes in the battery pack PCM and change in the conformity marking
R2629/A/1	29/06/2020	4	R8 value changed to 1k (from 0.510 R), R7 value changed to 1.3K (from 680 R), R15 value changed to 3.9K (from 1K), U2 description was updated to include software version, and an alternate manufacturer was added for LED1 in the charger base. Schematic update reflecting the above changes.

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Schedule

Report Number	Certificate Issue Date	Issue Number	Comment
R3161/A/1	04/02/2022	5	<p><u>Removal of Zone 1 variant and Samsung ICR 18650-30B</u> The previous variation included a variant which was only for use in Zone 1. This variant has been removed and since the device is only marked for Zone 0 now and the Samsung cell is not suitable for use in Zone 0 it has been removed from the approval.</p> <p><u>Inclusion of new secondary cells:</u> (LG Chem INR18650 F1L, & Panasonic UR18650-ZY) Both cells have been tested by 'SGS North America Inc. Consumer and Retail Services' in the report with ExTR Free Reference Number: SUW-4710345-ExTR-003a issued 12/04/2021. The data contained in the report has been used to determine each cell's suitability for inclusion into the intrinsically safe device.</p> <p><u>Amalgamation of 3315R and 3335R Flashlights</u> The 3315R and 3335R flashlights are identical except for the orientation of the charge pins on the 3335R Flashlight. Since this does not affect the type of protection, 3335R has been added as a variant of the 3315R into this variation. Consequently, an additional drawing for the 3335R charger input is included in 'technical documents'.</p> <p><u>UKEX Certificate</u> The issue of this variation also grants the product a prime issue of the UKEX certificate. Consequently, the marking drawing has been updated to include the UK Conformity mark and the certificate number.</p> <p><u>Removal of "op is"</u> The term "op is" has been removed from the marking string, as IEC 60079-28:2015/ISH1:2019 indicates that the evaluation is no longer relevant for divergent light sources such as the '3315' and '3335' Flashlight. Consequently, the marking drawing has been updated to reflect the correct marking string.</p>
R4061/A/1	02/08/2022	6	Additional encapsulant added to the bill of materials
R4356/A/1	09/02/2023	7	An additional capacitor added in the LED driver circuit and a re-design of the CH05 charger. No changes which affects the type of protection except for the capacitor.

14.2 Compliance Drawings:

Title	Drawing Number	Revision Level	Date
3315R Right angle adapter	03315R-6000-000-42	B	10/10/2016
3315R light assembly	03315R-6000-000E-Z0	E	10/02/2020
3335R Approval insert	03335R-001	A	18/07/2021
3335R Z0 Approval insert	03335R-001-Z0	A	11/02/2022
User manual	03335R-3180-000E	A	25/01/2022
3335R assembly drawing*	03335R-6000-000-AP*	A*	24/01/2023*
Battery pack drawing	BAT06-0001-001E-01	A	06/07/2022

15 Conditions of Certification

15.1 Special Conditions for Safe Use

- Charging of the '3315R Flashlight' is only permitted with the associated '3318 battery charger'.
- Charging of the '3335R Flashlight' is only permitted with the associated 'CHG05 battery charger'.
- Charging of either device is not permitted inside the explosive gas environment.

Continued overleaf.

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15.2 Conditions for Use (Routine tests)

- None

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.