


UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

- UK-Type Examination Certificate Number:** ITS21UKEX0247X **Issue 00**
- Product:** Portable LED Intrinsically Safe Headlamp (XPP-5450G and XPP-5452G)
- Manufacturer:** Bayco Products, Inc.
- Address:** 640 Sanden Blvd, Wylie, TX 75098, USA
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 104092972DAL-019.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0: 2018, EN 60079-11: 2012 and EN 60079-28:2015 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:

 II 1 G

Ex ia op is IIC T4 Ga

-20°C ≤ Ta ≤ +40°C

Certification Officer:  **Date:** 20 July 2022
Todd L. Relyea

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0247X Issue 00

11. Description of Product or Protective System

The product covered by this report is a portable LED headlamp in one enclosure. The printed circuit boards and components are mechanically captive by the design of the housing. After properly inserting the alkaline batteries, the assembly is mechanically locked via a cover locking screw.

The differences between the models are the value of internal electrical components: fuses, resistors, and the performance of the LED chip.

Rating: 4.5V nominal, powered by AAA cells in series, types Energizer E92, Energizer EN92.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

12. Report Number

Intertek Report: 104092972DAL-019 Dated: December 06, 2021.

13. Special Conditions of Certification

(a). Special Conditions of Use

- Approved batteries for use: 4.5 V nominal, powered by three AAA cells in series, types Energizer E92 or Energizer EN92
- The capacitance measured on clip on back side of enclosure, being 3.8pF; exceeds limit of 3pF for Group IIC. The user shall determine the suitability of the equipment in the end application.
- See Instruction Manual for Warnings.

(b). Conditions of Manufacture - Routine Tests

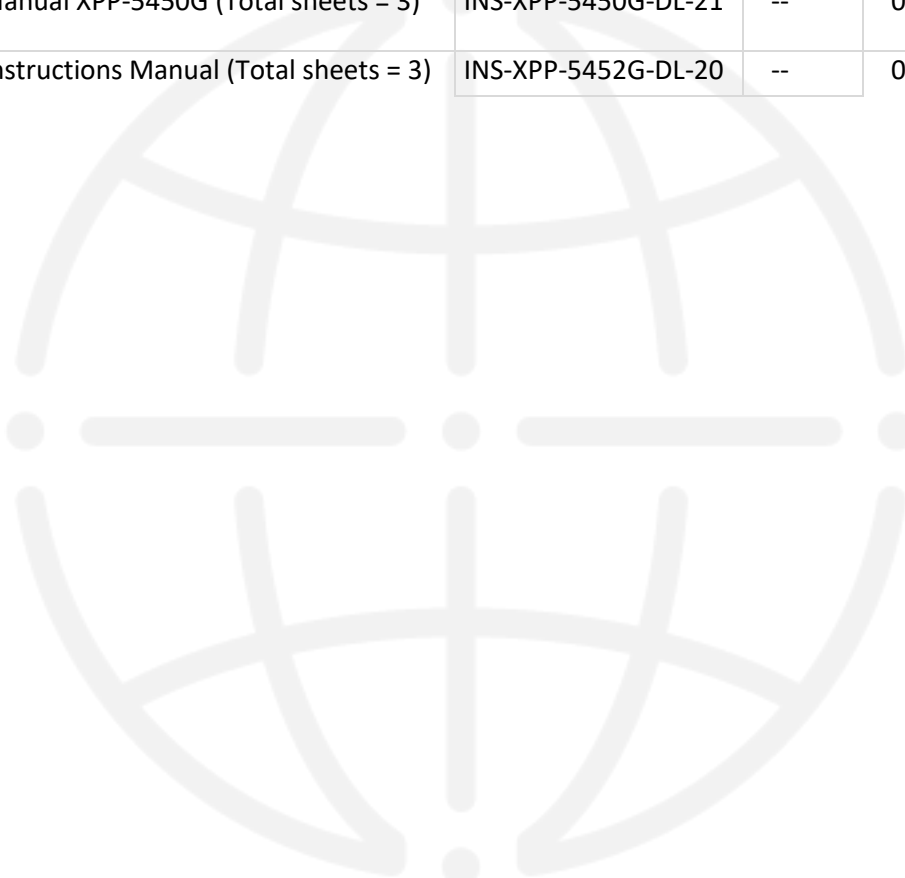
None.

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104092972DAL-003 Dated: December 05, 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*Top Level Design File (Total sheets = 1)	5450-52-GENL-MAST-00	F	05/08/2019
*Certification Master Design File (Total sheets=3)	5450-52-CERT-DWG1-01	F	05/08/2019
*Electrical Master Design File (Total sheets = 16)	5450-52-ELEC-DWG1-01	F	05/08/2019
Mechanical Master Design File (Total sheets = 6)	5450-52-MECH-DWG1-01	E	01/16/2017
*Instruction Manual XPP-5450G (Total sheets = 3)	INS-XPP-5450G-DL-21	--	06/18/2021
*XPP-5452G Instructions Manual (Total sheets = 3)	INS-XPP-5452G-DL-20	--	01/24/2020



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Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.