

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:** ITS21UKEX0264X Issue 00
- Product:** Portable Intrinsically Safe LED Flashlight and/or Floodlight (XPP-5418GX, XPP-5418RX, XPP-5420, XPP-5420GX, XPP-5422, XPP-5422GM, XPP-5422GX and XPP-5422GMX)
- 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-017.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards 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:



I M1 Ex I Ma (For all models but XPP-5418GX and XPP-5418RX) II 1 G Ex ia op is IIC T3 Ga
-20°C ≤ Ta ≤ +40°C

Certification Officer:


Todd Relyea

Date:

21 July 2022

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the 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 Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This Certificate is accredited under UKAS schedule 0010

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.

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0264X Issue 00

11. Description of Product or Protective System

The product covered by this report is a portable LED flashlight and a floodlight in one light. The user can operate either light independent of the other so that the user has the appropriate pattern of light for whatever the task at hand is, or, in dual-light mode, both lights can be turned on simultaneously. The Nightstick (Brand name of the product) consists of four printed circuit boards, and has two separate compartments, a battery box, and the lighting box.

The printed circuit boards and components are mechanically captive by the design of the housing, where disassembly is required to access the critical parts. After properly inserting the three AA alkaline batteries, the assembly is mechanically locked via a cover locking screw.

XPP-5420 model is a single LED flashlight, available in a black (B) or green (G) enclosure; and XPP-5422 model is a dual-light flashlight and floodlight, available in a black (B) or green (G) enclosure. Ratings: 4.5 V nominal, powered by three AA cells in series, types Duracell PC1500, Energizer EN91, or Energizer Lithium L91.

XPP-5422GM is an alternate construction of XPP-5422 model that includes addition of two elliptical magnets: one on side of enclosure and other on bottom of enclosure with the same electrical circuit and batteries.

XPP-5418GX and XPP-5418RX models are single LED flashlights, available in a black (B) or green (R) enclosure where GX and RX denotes the green and red enclosures for the flashlights. They powered by three AA alkaline batteries (Energizer E91 or Energizer EN91).

In XPP-5420GX, XPP-5422GX and XPP-5422GMX models:

X = All models that use the new LED XPGBWT-L1-0000-00L51:

All other models use XPEWHT-L1-0000-00E01.

12. Report Number

Intertek Report: 104092972DAL-017 Dated: December 06, 2021.

13. Special Conditions of Certification

(a). Special Conditions of Use

- XPP-5420 models are to be used only with three AA cells in series, types Duracell PC1500, Energizer E91 or Energizer EN91.
- XPP-5422 models are to be used only with three AA cells in series, types Duracell PC1500, Energizer E91 or Energizer EN91.
- For model XPP-5422GM, the capacitance measured on two magnets and side clip exceeds 3pF for Group IIC. Following are values of measured capacitance. The user shall determine the suitability of the equipment in the end application.

Metal Part	Measured Capacitance in pF
Magnet on Base of Enclosure	4.03
Magnet on Side of Enclosure	3.1
Side Clip on Enclosure	4.3

- XPP-5418 models are to be used only with three AA cells in series, types Energizer E91, or Energizer EN91.
- See Instructions Manual for warnings and approved batteries.

(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-017 Dated: December 06, 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*XPP-5422 GENERAL TOP LEVEL	5422-GENL-MAST-00	J	10/05/2021
*XPP-5420A GENERAL TOP LEVEL	5420A-GENL-MAST-00	J	03/01/2020
*XPP-5422A FLASHLIGHT	5422A-MAST-DWG1-01 MASTER CERTIFICATION	J	10/05/2021
*XPP-5422 FLASHLIGHT	5422-CERT-DWG1-03 US/CA	J	10/05/2021
*XPP-5420A FLASHLIGHT	5420A-CERT-DWG1-01 MASTER CERTIFICATION	J	10/05/2021
*XPP-5420A FLASHLIGHT	5420A-CERT-DWG1-02	J	04/15/2022
*XPP-5422A FLASHLIGHT (total 9 pages)	5422A-ELEC-DWG1-01 MASTER ELECTRICAL	J	10/05/2021
*XPP-5422A FLASHLIGHT	5422A-ELEC-DWG1-08 REVISION INDEX	J	02/08/2021
*XPP-5420A FLASHLIGHT (total 9 pages)	5420A-ELEC-DWG1-01 MASTER ELECTRICAL	J	10/05/2021
*XPP-5420A FLASHLIGHT	5420A-ELEC-DWG1-08 REVISION INDEX	J	10/05/2021
Master Design File (Page 1 of 7)	5420A-22A-MECH- MAST-00	A	04/29/2020
General Assembly (BOM) (Page 2 of 7)	5420A-MECH-GASM-001	A	04/29/2020
General Assembly Layout (Page 3 of 7)	5420A-MECH-DETL-001	A	04/29/2020
General Assembly (BOM) (Page 4 of 7)	5420A-MECH-PDAM-001	A	04/29/2020
General Assembly (BOM) (Page 5 of 7)	5422A-MECH-GASM-001	A	04/29/2020
General Assembly Layout (Page 6 of 7)	5422A-MECH-PDAM-001	A	04/29/2020
General Assembly Layout (Page 7 of 7)	5422A-MECH-PDAM-001	A	04/29/2020
XPP-5420GX Instructions Manual (Total sheets = 5)	INS-XPP5420GX-16	16	--
XPP-5422GX Instructions Manual (Total sheets = 5)	INS-XPP5422GX-16	16	--
XPP-5422GMX Instructions Manual (Total sheets = 5)	INS-XPP5422GMX-16	16	--
*Top Level Design File (Total sheets = 1)	5418-GENL-MAST-00	B	10/01/2019
*Certification Master Design File (Total sheets=3)	5418-CERT-DWG1-01	B	10/01/2019
*Electrical Master Design File (Total sheets = 19)	5418-ELEC-DWG1-01	B	10/01/2019
Mechanical Master Design File (Total sheets = 8)	5418-MECH-DWG1-01	A	05/31/2017
XPP-5418GX/RX Instructions Manual (Total sheets = 4)	INS-XPP5418GX/RX-17	17	--