

EU TYPE-EXAMINATION CERTIFICATE

EU type-examination Certificate (Module B)

Equipment or Protective System intended for use in potentially explosive atmospheres
(Directive 2014/34/EU)



EU type examination certificate Nr **ITS13ATEX27837X R.0**

Product: Portable Intrinsically Safe LED Flashlight and/or Floodlight (XPP-5418GX, XPP-5418RX, XPP-5420A, XPP-5420GX, XPP-5422A, XPP-5422GM, XPP-5422GX and XPP-5422GMX)

Manufacturer: Bayco Products, Inc.

Applicant: Bayco Products, Inc.

Address: 640 Sanden Blvd, Wylie, TX 75098,
USA

Address: 640 Sanden Blvd, Wylie, TX 75098,
USA

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

INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 104092972DAL-005

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 at item 16 of the Schedule.

If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive 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 except XPP-5418GX and XPP-5418RX)

II 1 G Ex ia op is IIC T3 Ga

-20°C ≤ Ta ≤ +40°C

06 October 2022

Certificate issue date



Todd Relyea
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



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.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23a (8 March 2022)

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13. DESCRIPTION OF THE EQUIPMENT 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.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	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



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TITLE	DOCUMENT Nr	LEVEL	DATE
*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	--

*Note: An * is included before the title of documents that are new or revised.*

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC 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.



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- 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.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Intertek Report: 104092972DAL-005 Dated: December 06, 2021.

17. ROUTINE (FACTORY) TESTS

None

18. DETAIL OF CERTIFICATE CHANGES

Details of Certificate changes Issue 1

XPP-5422GM model has been added that includes addition of two elliptical magnets: one on side of enclosure and other on bottom of enclosure. There is no change in electrical circuit or batteries used in XPP-5422GM.

Title:	Drawing No.:	Rev. Level:	Date:
5420/22 I.S. LED Task Light General Top Level Design File (Total Sheet(s)=1)	5420-22-GENL-MAST-00	F	29th Dec 2014
5420/22 I.S. LED Task Light Certification Master Design File (Total Sheet(s)=5)	5420-22-CERT-MAST-00	F	29th Dec 2014
5420/22 I.S. LEC Task Light Electrical Master Design File (Total Sheet(s)=39)	5420-22-ELEC-MAST-00	F	29th Dec 2014



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5420/22 I.S. LED Task Light Mechanical Master File (Total Sheet(s)=7)	5420-22-MECH-MAST-00	F	29th Dec 2014
5422GM IS LED TAK Light MECHANICAL COVER SHEET ((Total Sheet(s)=3))	5422GM-MECH-DWG1-01 THROUGH 5422GM-MECH-DWG1-03	F	29th Dec 2014

ITS13ATEX27837X Issue 2

- XPP-5420GX, XPP-5422GX and XPP-5422GMX models have been added.
X = All models that use the new LED. Old LED that is still used by all other models is XPEWHT-L1-0000-00E01, and new LED used by above noted three models is XPGBWT-L1-0000-00L51.
- For XPP-5422GX and XPP-5422GMX models, one series fuse F2 has been removed and schematic has been updated with new values of resistors and fuses.
- Updated ATEX directive; In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.
- Standard EN 60079-26:2007 has been removed.
- Standard EN 60079-28:2007 has been added.
- Type of protection Optical Radiation “op is” has been added.

Title:	Drawing No.:	Rev. Level:	Date:
Top Level Design File (Total sheets = 1)	5420-22-GENL-MAST-00	A	07/29/2016
Certification (Total sheets=3)	5420-22-ELEC-MAST-00	A	07/29/2016
Electrical Master Design File (Total sheets = 39)	5420-22-ELEC-MAST-00	A	07/29/2016
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	--

ITS13ATEX27837X Issue 3

- XPP-5418GX and XPP-5418RX models have been added, where GX and RX denotes the green and red enclosures for the flashlights.



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- For all XPP-5420 and XPP-5422 models, Energizer E91 battery has been added.

Title:	Drawing No.:	Rev. Level:	Date:
Top Level Design File (Total sheets = 1)	5418-GENL-MAST-00	A	01/10/2017
Certification Master Design File (Total sheets=3)	5418-CERT-DWG1-01	A	01/10/2017
Electrical Master Design File (Total sheets = 19)	5418-ELEC-DWG1-01	A	01/10/2017
Mechanical Master Design File (Total sheets = 8)	5418-MECH-DWG1-01	A	01/10/2017
XPP-5418GX/RX Instructions Manual (Total sheets = 4)	INS-XPP5418GX/RX-17	17	--

ITS13ATEX27837X Issue R.0

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on December 2021 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Alternate LED model GW PUSRA1.PM-N4N6-XX51-1-700-R18 (could be N3N5 instead of N4N6 as the difference is in the Luminous Flux) has been added.
- Standard EN 60079-0:2012 has been updated to EN IEC 60079-0:2018.
- Standard EN 60079-28: 2007 has been updated to EN 60079-28: 2015.
- Standard EN 50303:2000 has been removed.
- Addition of suffix 'A' for all XPP 5420 and 5422 models.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889. Test results are noted under 104092972DAL-001C-TDP.