



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX ITS 16.0067X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2017-07-31\)](#)
[Issue 0 \(2016-10-10\)](#)
Date of Issue: 2023-01-10
Applicant: **Bayco Products, Inc.**
640 S. Sanden Blvd.
Wylie, TX 75098
United States of America
Equipment: **Portable Intrinsically Safe LED Flashlight and/or Floodlight**
Optional accessory:
Type of Protection: **Intrinsically Safe "i"; Optical Radiation "op is"**
Marking: IECEx ITS 16.0067X
XPP-5420A and XPP-5422A:
Ex ia op is I Ma
Ex ia op is IIC T3 Ga
EXPP-5418GX and XPP-5418RX:
Ex ia op is IIC T3 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:
(for printed version)

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom

intertek



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Wylie, TX 75098
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Manufacturing
locations: **Bayco Products, Inc.**
640 S. Sanden Blvd.
Wylie, TX 75098
United States of America

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/ITS/ExTR16.0063/00](#)

[GB/ITS/ExTR22.0029/00](#)

Quality Assessment Report:

[GB/ITS/QAR13.0005/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 XPGWWT-L1-0000-00L51 :

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

SPECIFIC CONDITIONS OF USE: YES as shown below:

- XPP-5420A models are to be used only with three AA cells in series, types Duracell PC1500, or Energizer EN91 or E91.
- XPP-5422A models are to be used only with three AA cells in series, types Duracell PC1500 or Energizer EN91 or E91.
- XPP-5418GX and XPP-5418RX model is to be used only with three AA cells in series, types Energizer EN91 or E91.
- See Instructions Manual for warnings and approved batteries.
- For Model XPP-5522GMX, 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.
 - Magnet on Base of Enclosure 4.03pF
 - Magnet on Side of Enclosure 3.1pF
 - Side Clip of Enclosure 4.3pF



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

- Under this certificate, two new models have been added: XPP-5418GX and XPP-5418RX.
- These are portable LED Flashlights. 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 (Energizer E91 and Energizer EN91), the assembly is mechanically locked via a cover locking screw.
- These new models are not for Group I equipment group and have a separate label.
- GX and RX in the suffix denote the green and red enclosures for the flashlights.
- Another update under this new certificate is addition of Energizer E91 battery models for XPP-5420 and XPP-5422 models that are contained in the original certificate.

Issue 2:

- 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 IEC 60079-0: 2011 has been updated to IEC 60079-0: 2017.
- Standard IEC 60079-28: 2007 has been updated to IEC 60079-28: 2015.
- Addition of suffix 'A' for all XPP 5420 and 5422 models.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889

Annex:

[Annex for IECEx Certificate of Conformity - IECEx ITS 16.0067X_1.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 16.0067X	Issue No. 2
Annex No. 1		

Technical 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	04/15/2022
*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	12/13/2022
*XPP-5422A FLASHLIGHT	5422A-ELEC-DWG1-08 REVISION INDEX	J	02/08/2021
*XPP-5420A FLASHLIGHT (total 9 pages)	5420A-ELEC-DWG1-01 MASTER DESIGN FILE	J	12/13/2022
*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	--
*5418 IS MULTI-FUNCTION FLASH LIGHT GENERAL TOP LEVEL DESIGN FILE(Total sheets=1)	5418-GENL-MAST-00	B	10/01/2019
*5418 IS MULTI-FUNCTION FLASH LIGHT CERTIFICATION MASTER DESIGN FILE (Total sheets=3)	5418-CERT-DWG1-01	B	10/01/2019



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*5418 IS MULTI-FUNCTION FLASH LIGHT ELECTRICAL MASTER DESIGN FILE (Total sheets = 10)	5418-ELEC-DWG1-01	B	10/01/2019
*Instruction Manual XPP-5418GX/RX	INS-XPP-5418GX/RX-DL-22	--	09-07-2022
*Instruction Manual XPP-5420B, XPP-5420G XPP-5420BA, XPP-5420GA	INS-XPP-5420B/G/BA/GA-DL-22	--	09-07-2022
*Instruction Manual XPP-5420GX & XPP-5420GXA	INS-XPP-5420GX/GXA-DL-22	--	09-07-2022
*Instruction Manual XPP-5422B / XPP-5422G XPP-5422BA / XPP-5422GA	INS-XPP-5422B/G/BA/GA-DL-22	--	09-07-2022
*Instruction Manual XPP-5422GM / XPP-5422GMA	INS-XPP-5422GM-GMA-DL-22	--	09-07-2022
*Instruction Manual XPP-5422GMX / XPP-5422GMXA	INS-XPP-5422GMX-GMXA-DL-22	--	09-07-2022
*Instruction Manual XPP-5422GX / XPP-5422GXA	INS-XPP-5422GX/GXA-DL-22	--	09-07-2022

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



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IECEx Certified Components on Which Conformance Depends
NA

Required Manufacturer Routine Testing
NA