



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx ITS 16.0067X

Issue No: 1

Certificate history:

Issue No. 1 (2017-07-31)

Issue No. 0 (2016-10-10)

Status: **Current**

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Date of Issue: **2017-07-31**

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-5420 and XPP-5422

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:*

P Moss

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28 : 2006-08** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:1

*This Certificate **does not** indicate compliance with electrical 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 Report:

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

[US/ETL/ExTR17.0059/00](#)

Quality Assessment Report:

[GB/ITS/QAR13.0005/03](#)



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## Schedule

### 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.

Model similarity: XPP-5420 models are single LED flashlights, available in a black (B) or green (G) enclosure.

XPP-5422 models are dual-light flashlight and floodlights, available in black (B) or green (G) enclosure. This series consists of an additional model (XPP-5422GM) which includes two external magnets at the base and clip respectively.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- XPP-5420 model is to be used only with three AA cells in series, types Duracell PC1500, or Energizer EN91 or E91.
- XPP-5422 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.
- 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.

### Annex:

[Annex for CoC IECEx ITS 16.0067X, Issue 1.pdf](#)

[Annex for CoC IECEx ITS 16.0067X.doc](#)



# IECEX Certificate of Conformity

<b>Certificate No:</b>	<b>IECEX ITS 16.0067X</b>	<b>Issue No. 1</b>
<b>Annex No. 1</b>		

## Manufacturer's documents

Drawings associated with Issue 1 of this certificate:

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	--

Certificate issued by:

**Intertek**  
3933 US Route 11 South  
Cortland NY 13045-2995  
United States of America

