

# **EU TYPE-EXAMINATION CERTIFICATE**

- 1. EU type-examination Certificate (Module B)
- 2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)

3. EU type examination certificate Nr ITS13ATEX27854X R.1

4. **Product:** Portable LED Intrinsically Safe Headlamp (XPP-5450G and XPP-5452G)

5. **Manufacturer:** Bayco Products, Inc. **Applicant:** Bayco Products, Inc.

6. Address: 640 Sanden Blvd Address: 640 Sanden Blvd

Wylie, TX 75098
USA
Wylie, TX 75098
USA

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

8. 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-019.

- 9. 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 at item 16 of the Schedule.
- 10. If the sign X is placed after the certificate number, it indicates that the product is subject to Special Conditions for Safe Use specified in the schedule to this certificate.
- 11. 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.
- 12. The marking of the product shall include the following:

 $\langle x3 \rangle$ 

II 1 G Ex ia op is IIC T4 Ga  $-20^{\circ}$ C  $\leq$  Ta  $\leq$  +40 $^{\circ}$ C

05 October 2022

Certificate issue date

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



PDR Nº 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements



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.





#### **SCHEDULE**

#### **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27854X R.1**

## 13. DESCRIPTION OF THE EQUIPMENT 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.

#### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	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

<u>Note</u>: 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. SPECIAL CONDITIONS FOR SAFE 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.

#### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104092972DAL-019 dated December 06, 2021.





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# 17. ROUTINE (FACTORY) TESTS

None

## 18. **DETAIL OF CERTIFICATE CHANGES**

#### Issue R.O:

- Models XPP-5450GC and XPP-5452GC have been added which include a metallic attachment clip on the mounting plate. These models use LED type XPGBWT-L1-0000-00L5.
- Standard EN 60079-0:2012 has been updated to EN 60079-0:2012 + A11:2013.
- 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.
- 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.

Title:	Drawing No.:	Rev. Level:	Date:
Top Level Design File (Total sheets = 1)	5450-52-GENL-MAST-	Е	01/16/2
	00		017
Certification Master Design File (Total	5450-52-CERT-	Е	01/16/2
sheets=3)	DWG1-01		017
Electrical Master Design File (Total sheets =	5450-52-ELEC-DWG1-	E	01/16/2
16)	01		017
Mechanical Master Design File (Total sheets =	5450-52-MECH-	Е	01/16/2
6)	DWG1-01		017
XPP-5450G Instructions Manual (Total sheets	INS-XPP5450G-17B	17B	
= 6)			
XPP-5450GC Instructions Manual (Total sheets	INS-XPP5450GC-17B	17B	
= 6)			
XPP-5452G Instructions Manual (Total sheets	INS-XPP5452G-17B	17B	
= 5)			
XPP-5452GC Instructions Manual (Total sheets	INS-XPP5452GC-17B	17B	
= 5)			

### Issue R.1:

- 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. This LED was tested under ExTR GB/ITS/ExTR18.0051/00
  and determined to meet T4 temperature code at an ambient of up to 40°C. Since it is good for T4 environment,
  it is good for T3 environment.
- Temperature code T3 has been updated to T4 for XPP-5450G and XPP-5452G models.





# **SCHEDULE**

# **EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS13ATEX27854X R.1**

- Standard EN 60079-28: 2007 has been updated to EN 60079-28: 2015
- Standard EN 60079-0:2012 has been updated to EN IEC 60079-0:2018.
- Update polymer from RTP 2599 X 123981 to RTP 2599 X 133889.
- Deleted XPP-5450GC and XPP-5452GC.

TITLE.	DDAMMING NO .	DEV LEVEL.	DATE.
TITLE:	DRAWING NO.:	REV. LEVEL:	DATE:
Top Level Design File (Total sheets	5450-52-GENL-MAST-00	F	05/08/2019
= 1)			
Certification Master Design File	5450-52-CERT-DWG1-01	F	05/08/2019
(Total sheets=3)			
Electrical Master Design File (Total	5450-52-ELEC-DWG1-01	F	05/08/2019
sheets = 16)			
Instruction Manual	INS-XPP-5450G-DL-21		06/18/2021
XPP-5450G (Total sheets = 3)			
XPP-5450GC Instructions Manual	INS-XPP5450GC-17B	17B	
(Total sheets = 6)			
XPP-5452G Instructions Manual	INS-XPP-5452G-DL-20		01/24/2020
(Total sheets = 3)			
XPP-5452GC Instructions Manual	INS-XPP5452GC-17B	17B	
(Total sheets = 5)			