

# Hercules Ex (EX) (PN: L3000)







can be used to charge batteries

explosive atmospheres.

without removing them from the

lamp. Charger must not be used in



## 4 Year warranty

Designed upon request of the military, Hercules is probably the most durable and shock-proof UV light in the world today, suitable for any "heavy duty" environment. It comes with explosion proof approvals and is tested to comply with ASTM E3022-18 and all PRIMES requirements, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. Accidentally dropped it, kicked it, baked it in an oven, run it over by a tank? — it will still work! — The battery is inside the light; you don't need to worry it got smashed like ordinary lights. Zero LEDs out from day of launch, 6 years ago!



work spaces.

with two rechargeable

batteries for ease of use in

field inspections and tight



**Hercules Ex** is an extremely durable product specifically developed for use in areas where the risk of an explosion is high. Use of explosion proof products is often required in Offshore Oil Rigs, Refineries, Aerospace, and Defense. It has successfully completed extremely tough tests, amongst them tests for thermal conditioning, Impact Tests, Drop Tests, IP tests that led to the ATEX certification (Certificate: ITS17ATEX402144X). This unique product is suitable for use in extreme weather conditions varying from 104° Fahrenheit (+ 40° Celsius) to minus 4° Fahrenheit (- 20° Celsius).

Furthermore, Hercules Ex has successfully completed all tests and audits leading to its certification for IECEx, NFPA 70 Article 500 for Class I (divisions II locations) and the United States military tests, Salt Fog Test and Explosive Atmosphere Test. It has an ingress protection marking of IP66.

This unique light is battery powered and has four UV LEDs that generate an intensity of 4 000  $\mu$ W/cm². A charger is supplied with each lamp enabling users to charge the batteries without removing them from the lamp. Charging of batteries should only take place outside explosive atmospheres.

Hercules Ex has been tested to comply with ASTM E3022-18, Rolls-Royce RRES 90061 and Airbus AITM6-1001. A certificate of conformity is provided with every light as well as a 4-year warranty.

### **FACTS ABOUT HERCULES EX**

Output Characteristics	Hercules Ex
Intensity Visible light	≈ 4 000 µW/cm² < 1.5 lux / 0.1 fc
Beam > I 000 μW/cm <sup>2</sup>	Ø 8 inches / 20 cm

At a distance of 38 cm (15 inches)

### **TECHNICAL DATA**

	Hercules Ex
UV LED:	4
Wavelength:	365 nm (peak) +/- 5 nm
Estimated LED life time:	30 000 hours
UV-B:	100% free from UV-B
Filter:	White light block filter
Power supply:	Battery
Weight:	888 grams (2.0 lbs)
Battery running time:	3 hours (+/- 5%)



#### **EXPLOSIVE ATMOSPHERE CERTIFICATIONS**

ATEX certified for Group II, Zone II (Certificate: ITS17AT-EX402144X), IECEx, NFPA 70 Article 500 for Class I (divisions II locations), Explosive Atmosphere Test as per MIL-STD-810G.



## OPERATE THE LAMP AS MAINS WHILE CHARGING BATTERIES

A separate PSU supplied can charge the batteries. This charger can only be used outside explosive atmospheres.



#### **PACKAGE INCLUDES:**

Lamp, Car Charger, Four Batteries, UV Block Goggles, External Charger for wall outlet, Carrying Case, Charging Power Supply.



## TYPE-EXAMINATION CERTIFICATE

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

ITS17ATEX402144X

3. Type examination certificate Nr ITS17ATE

4. **Product:** MB Hercules Ex

5. Manufacturer: Labino AB Applicant: Labino AB

6. Address: Fågelsångsvägen 16, Address: Fågelsångsvägen 16,

186 42 Vallentuna, 186 42 Vallentuna,

Swede Sweden

- 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., 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. 104666450LHD-001, Revision 0, Dated 28 July 2021.

- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018
   N IEC 60079-15:2019 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 certifica
- 11. This 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:



II 3G Ex ec nC IIC T4 Gc  $-20^{\circ}$ C  $\leq$  Tamb  $\leq$   $+40^{\circ}$ C

06-Sep-2021

Certificate issue date

Paul Moss

Certification Officer Intertek Italia S.p.A.

This certificate has been issued by Intertek Italia S.p.A. on transfer from Intertek Testing & Certification Ltd. 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 - Ital



## **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 17.0056X Page 1 of 4 Certificate his	k ITS 17.0056X Page 1 of 4	Certificate history:
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Issue 1 (2018-06-11) Status: Issue No: 2 Current Issue 0 (2017-10-12)

**Paul Moss** 

2021-09-06 Date of Issue:

Applicant: Labino AB

Fågelsångsvägen 16 SE-186 42 Vallentuna

Sweden

**MB Hercules Ex** Equipment:

Optional accessory:

Equipment protection by type of protection 'n' Type of Protection:

Ex ec nC IIC T4 Gc Marking:

-20°C ≤ Tamb ≤ +40°C

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Certification Officer** 

Signature:

(for printed version)

This certificate and schedule may only be reproduced in full.

This certificate is not transferable and remains the property of the issuing body.
 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





Compliance with relevant ASTM and ISO Standards as well as Industry Engineering specifications

Labino AB LED UV Lights	Built in White Light LED	UV Intensity at 38 cm (15") (μW/cm²)	COMPLIES WITH ASTM E3022-2018 Standard	COMPLIES WITH Rolls-Royce RRES 90061 Specification	COMPLIES WITH Airbus AITM6-1001 Testing Method	COMPLIES WITH Pratt & Whitney Requirements	COMPLIES WITH The Bosing Co Requirements	COMPLIES WITH ISO 3059-12 Standard	COMPLIES WITH USAF Requirements
GX SERIES – OVERHEAD LIGHT									
GX Orion REMOTE	/	1500-7000	>	I	I	I	I	`	ı
GX Orion UV & WH	`	≈7 000	`	I	`	`	I	`	I
GX Orion UV	I	≈ 4 500	`	`	`	`	`	`	`
BB 2.0 SERIES – HANDHELD LIGHT									
BB 2.0 Helios	ı	0006≈	`	I	^	<i>'</i>	I	`	`
BB 2.0 Ikaros	ı	≈ 4 000	`	`	`	`	`	`	`
BB 2.0 Artemis	1	≈ 22 000	``	ı	I	ı	ı	`	1
MB 3.0 SERIES – HANDHELD LIGHT									
Hercules Ex	I	≈ 4 000	`	`	^	`	`	`	`
MB 3.0 Zeus	`	≈ 4 500	`	>	>	>	>	`	I
MB 3.0 Zeus with Athena	`	≈ 4 500	`	`	`	`	`	`	I
MB 3.0 Hermes	ı	≈ 4 500	`	>	>	`	`	`	`
MB 3.0 Hermes with Athena	I	≈ 4 500	`	`	`	`	`	`	`
MB 3.0 Selene	`	0006≈	`	ı	`	>	ı	`	I
MB 3.0 Selene with Athena	`	0006≈	`	ı	``	`	I	`	I
MB 3.0 Atlas	ı	0006≈	`	ı	`	`	ı	`	`
MB 3.0 Atlas with Athena	I	0006≈	`	I	`	`	I	`	`
MB 2.0 SERIES – FLASHLIGHT / HEADLIGHT	EADLIGHT								
UVG3 2.0 Spotlight	1	∞ 80 000	>	I	I	ı	-	`	I
<b>UVG3 2.0</b> Midlight	I	0006≈	`	I	``	`	I	`	`
UVG3 2.0 Floodight	ı	≈ 4 000	`	`	`	`	`	`	`
<b>UVG5 2.0</b> Spotlight	Optional	∞ 80 000	`	I	I	I	I	`	I
UVG5 2.0 Midlight	Optional	0006≈	`	ı	>	`	ı	`	`
UVG5 2.0 Floodight	ı	≈ 4 000	`	`	``	`	`	`	`

PLEASE NOTE: The above models are in compliance with the above ASTM and ISO standards as well as industry specifications as indicated on the table above irrespective of the power source (Battery or Mains).