


[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU Annex III, Module B

- [3] EU – Type Examination Certificate Number ACE25ATEX017X Rev00
- [4] Product Explosion-proof Light Fittings Model BnY81- LED ×
 Series and BnY81- LED × J Series
- [5] Manufacturer WAROM TECHNOLOGY INCORPORATED COMPANY
- [6] Address No. 555 Baoqian Road, Jiading District, Shanghai,
201808 China
- [7] This equipment or protective system and any acceptable variation there to are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive
The examination and test results are recorded in confidential Report nº. EX_EXE007_25_25-680,
EX_EXT005_25_25-680
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN IEC 60079-7: 2015/A1:2018: Explosive atmospheres - Part 7: Equipment protection by increased safety ‘e’
EN 60079- 18:2015/A1:2017: Explosive atmospheres - Part 18: Equipment protection by encapsulation ‘m’
EN 60079-31:2014: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure ‘t’
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of 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.


This certificate may only be reproduced in its entirety and without any change, including schedules.

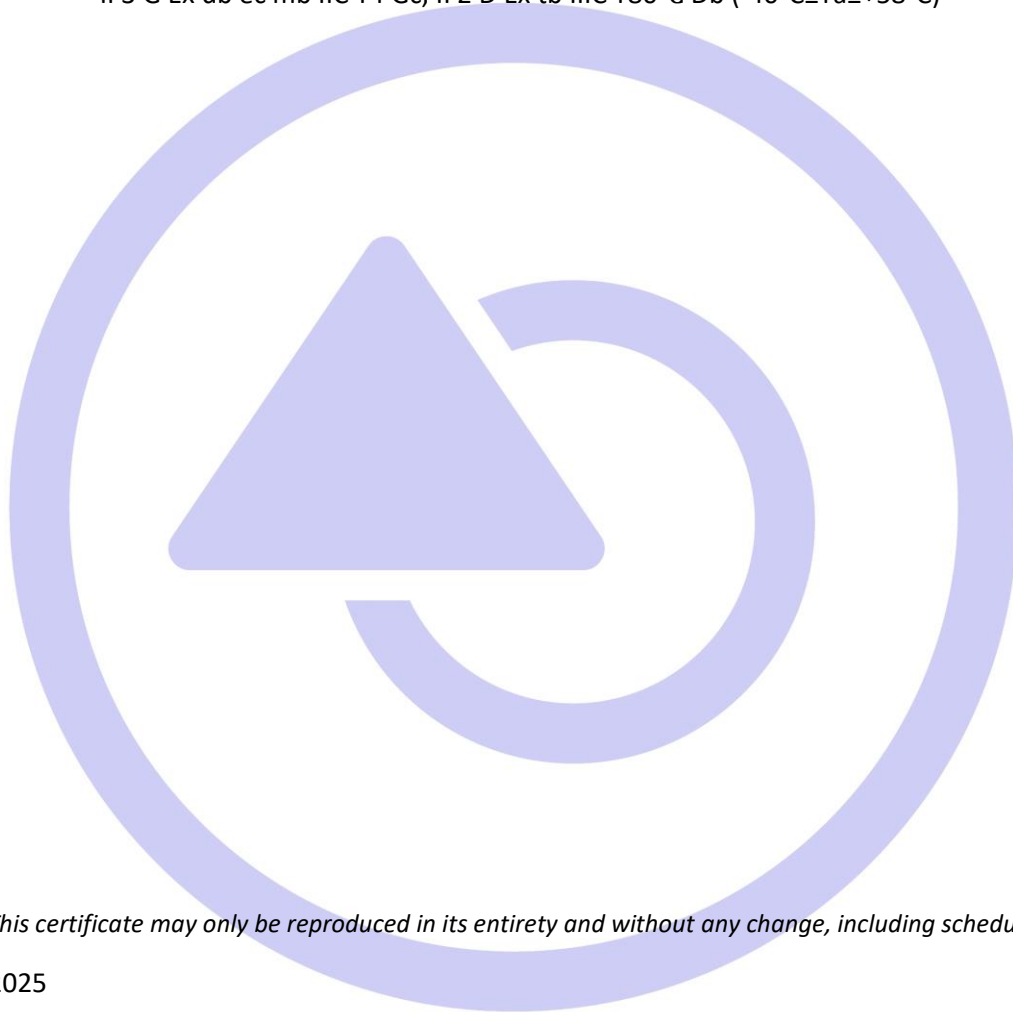
[12] The marking of the equipment or protective system shall include the following:

- Type BnY81- LED □ × □ □ series:

 II 3 G Ex ec mb IIC T5 Gc, II 2 D Ex tb IIIC T80°C Db (-40°C≤Ta≤+40°C)
II 3 G Ex ec mb IIC T4 Gc, II 2 D Ex tb IIIC T80°C Db (-40°C≤Ta≤+60°C)

- Type BnY81- LED □ × □ □ J series:

 II 3 G Ex db ec mb IIC T5 Gc, II 2 D Ex tb IIIC T80°C Db (-40°C≤Ta≤+40°C)
II 3 G Ex db ec mb IIC T4 Gc, II 2 D Ex tb IIIC T80°C Db (-40°C≤Ta≤+58°C)



This certificate may only be reproduced in its entirety and without any change, including schedules.

Date: 06/06/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

This certificate may only be reproduced in its entirety and without any change, including schedules.



[13]

SCHEDULE

[14]

EU-Type Examination Certificate No: ACE25ATEX017X Rev00

[15] Description of equipment:

The BnY81- LED $\square \times \square \square$ series and BnY81- LED $\square \times \square \square$ J series Explosion-proof Light Fittings are constructed in type of protection increased safety enclosure 'ec' for explosive gas atmospheres and in type of protection by enclosure 'tb' for explosive dust atmospheres. The BnY81- LED $\square \times \square \square$ series features an "ec mb" type design, while the BnY81- LED $\square \times \square \square$ J series includes additional "db ec mb" features with an emergency controller and battery pack. The light-transmitting parts are made of polycarbonate and the enclosures of their bodys are made of SMC plastic. Key components include LED modules, IECEx certified Explosion-proof LED Driver, Explosion-proof LED Emergency Controller, Explosion-proof terminal block and Explosion-proof indicator light module. There are most four cable entries provided.

Nomenclature:

S/N	BnY81	-	LED	\square	\times	\square	\square	\square
Code	a		b	c		d	e	f
a	Explosion-proof Light Fittings							
b	LED light source							
c	LED light source power (W)							
d	Number of light sources (No annotations are required for LED SMT)							
e	Mounting: L: pole type X: ceiling type B: wall type D: pendant chain type G: pendant pole type							
f	J: Emergency lighting (optional)							

Detail Technical Parameter:

- BnY81- LED $\square \times \square \square$ series

Model/type	Light source power (W)	Light source type	Rated voltage / Rated frequency	Ambient temperature/ temperature classification			
				Ta \leq +40 $^{\circ}$ C		Ta \leq +60 $^{\circ}$ C	
				Gas	Dust	Gas	Dust
BnY81-LED 9 \times 2 \square	9 \times 2	LED Lamp tube	100~277V AC 50Hz/60Hz 130~250V DC	T5	T80 $^{\circ}$ C	T4	T80 $^{\circ}$ C
BnY81-LED 14 \times 2 \square	14 \times 2						
BnY81-LED 28 \times 2 \square	28 \times 2						
BnY81-LED 20 \square	20	LED SMT					
BnY81-LED 40 \square	40						
BnY81-LED 60 \square	60						

This certificate may only be reproduced in its entirety and without any change, including schedules.

- BnY81- LED □×□ □J series:

Model/type	Light source power (W)	Emergency power (W)	Light source type	Rated voltage / Rated frequency	Ambient temperature/ temperature classification			
					Ta≤+40°C		Ta≤+58°C	
					Gas	Dust	Gas	Dust
BnY81-LED 9×2□J	9×2	9×2	LED Lamp tube	100~277V AC 50Hz/60Hz 130~250V DC	T5	T80°C	T4	T80°C
BnY81-LED 14×2□J	14×2	14×2						
BnY81-LED 28×2□J	28×2	28						
BnY81-LED 20□J	20	20	LED SMT					
BnY81-LED 40□J	40	20						
BnY81-LED 60□J	60	30						

List of Ex components/Ex equipment:

-List of Ex components/Ex equipment for type BnY81-LED□×□□ Explosion-proof Light Fittings

No.	Type	Ex marking	Certificate No.
1	HLY-Y20 or HLY-Y30 Explosion-proof LED Driver	II 2 G Ex mb IIC Gb	DNV 24 ATEX 95603U
2	TC8050-25/2 & TC8050-25/3 Explosion-proof terminal block	II 2 G Ex eb IIC Gb	DNV 21 ATEX 09722U

-List of Ex components/Ex equipment for type BnY81- LED □×□ □J Explosion-proof Light Fittings

No.	Type	Ex marking	Certificate No.
1	HLY-Y20 or HLY-Y30 Explosion-proof LED Driver	II 2 G Ex mb IIC Gb	DNV 24 ATEX 95603U
2	HLY-J Explosion-proof LED Emergency Controller	II 2 G Ex mb IIC Gb	DNV 24 ATEX 95602U
3	TC8050-25/2 & TC8050-25/3 Explosion-proof terminal block	II 2 G Ex eb IIC Gb	DNV 21 ATEX 09722U
4	BM-D Explosion-proof indicator light module	II 2 G Ex db eb IIC Gb	TÜV CY 25 ATEX 0207221 U

This certificate may only be reproduced in its entirety and without any change, including schedules.

[13] **SCHEDULE**

[14] EU – Type Examination Certificate No: ACE25ATEX017X Rev00

[16] Test documents are listed in the test report nº
EX_EXE007_25_25-680, EX_EXT005_25_25-680

[17] Special conditions for safe use

1. The ambient temperature range is limited to:
 - For BnY81- LED × series Explosion-proof Light Fittings:-40°C…+40°C/+60°C.
 - For BnY81- LED × J series Explosion-proof Light Fittings:-40°C…+40°C/+58°C.
2. For the “ec” enclosures of the BnY81- LED × series and BnY81- LED × J series Explosion-proof Light Fittings, before application, separate ATEX certified II 2G Ex eb IIC Gb and/or II 2D Ex tb IIIC Db IP66 cable glands and/or stopping plugs must be applied, rated minimum IP66, suitable for the conditions of use and correctly installed.
3. To avoid explosion risks from static electricity, clean the lamp surface only with a wet cloth

[18] Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

[19] Documents and technical datasheets:

Title	Object	Revision	Date
BnY81- LED <input type="checkbox"/> × <input type="checkbox"/> <input type="checkbox"/> Series Explosion-proof Light Fittings			
BnY81- LED <input type="checkbox"/> × <input type="checkbox"/> <input type="checkbox"/> Series Explosion-proof light fittings general assembly drawings	6103510456 6103510495 610351046001 610351049601	1	2025.4.18
Wiring diagram	610362009901~04	0	2024.4.13
Reflector	870405001201 870405001202 870405001102 870405001101 870405000902 870405000901	0	2024.4.13
Baffle assembly	870251003301	0	2024.4.13
Snap	870203007302 870203007301	0	2024.4.13
Rotating shaft	870100003701	0	2024.4.13
Mounting plate	870062057402 870062057401	0	2024.4.13

This certificate may only be reproduced in its entirety and without any change, including schedules.

	850062002202 850062002201 850062001901		
Body	820005014402 820005014401	0	2024.4.13
Sealing ring	8803700009	0	2024.4.13
Transparent cover	860403005202 860403005201	0	2024.4.13
Positioning card	860270000301	0	2024.4.13
LED Lamp tube(9W)	665101007101	0	2024.4.13
LED Lamp tube(14W)	665101007102	0	2024.4.13
LED Lamp tube(28W)	665101003201	0	2024.4.13
LED Light strip assembly(20W, 30W)	6651010066	0	2024.4.13
Lampholder	665101002601	0	2024.4.13
Nameplate	870860134601	1	2025.4.18
BnY81- LED <input type="checkbox"/> × <input type="checkbox"/> <input type="checkbox"/> J Series Explosion-proof Light Fittings			
BnY81- LED <input type="checkbox"/> × <input type="checkbox"/> <input type="checkbox"/> J Series Explosion-proof light fittings general assembly drawings	6103510459 6103510461 6103510497 6103510498	1	2025.4.18
Wiring diagram	610362009905~08	0	2024.4.13
Battery pack (Type KRH33/62(D) 4000T×6)	665290004711	0	2024.4.13
Nameplate	870860134602	1	2025.4.18
Instruction	610464033501	1	2025.4.18
Specifications of power frequency withstand voltage	OHR 599 007	/	/
Technical conditions of powerfrequency withstand voltage test	OHR 599 010	/	/
Data sheet of VMQ foam silicon rubber	Annex 1	/	/
Data sheet of SMC	Annex 2	/	/
UV Report of SMC	Annex 3	/	/
Data sheet of PC Makrolon® 2807+(z)(f1)	Annex 4	/	/
PC Makrolon® 2807+(z)(f1) UV Report of UL- E41613(f1)	Annex 5	/	/
Dison Battery Pack Specification(Type	Annex 6	/	/

This certificate may only be reproduced in its entirety and without any change, including schedules.

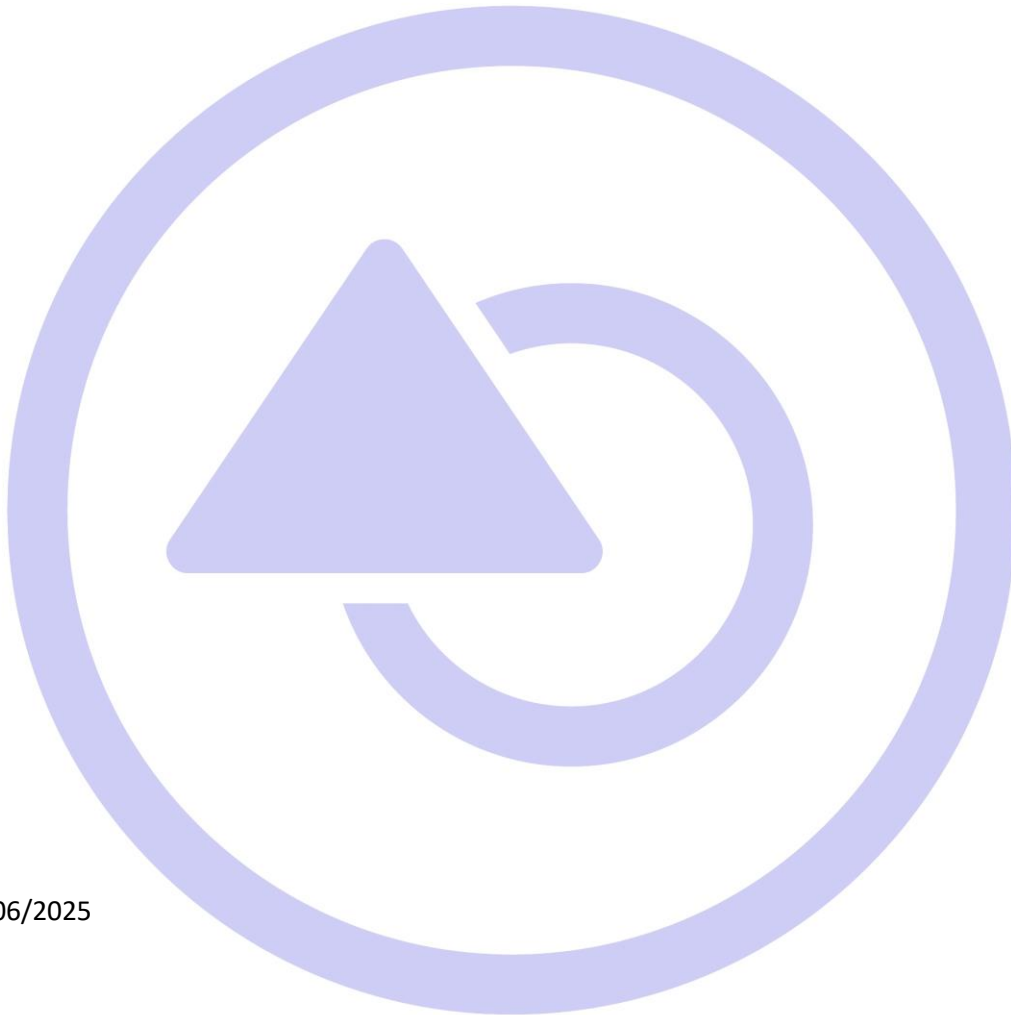
KRH33/62(D)4000T×6, 4000mAh, 7.2V)			
Gas tightness stated of KRH33/62(D)4000T Nickel cadmium (Ni-Cd) secondary cell	Annex 7	/	/
IEC 61951-1 test report of KRH33/62(D)4000T Nickel cadmium (Ni-Cd) secondary cell(Report(No.: (2020)GNW03)	Annex 8	/	/
Data sheet of PC Makrolon® ET3113+(z)(f1)	Annex 9	/	/
Declaration that the vibration tests of lampholder for “rough service luminaires” in IEC 60598-1	Annex 10	/	/
SBR1045SD1-T Silicon Diode Specifications	Annex 11	/	/
ATEX Certificate for HLY-Y Series Explosion-proof LED Driver	DNV 24 ATEX 95603U	/	/
ATEX Certificate for HLY-J Series Explosion-proof LED Driver	DNV 24 ATEX 95602U	/	/
ATEX Certificate for TC8050 Series Explosion-proof terminal block	DNV 21 ATEX 09722U	/	/
ATEX Certificate for BM-D Explosion-proof indicator light module	TÜV CY 25 ATEX 0207221 U	/	/
IECEX report	Report No: CN/CNE/ExTR24.0009/00 Lab: China National Quality Supervision and Test Center for Explosion Protected Electrical Apparatus	/	2024.12.11

The above-mentioned documents are strictly confidential and they are of only use of authorities.
A copy of the documents is saved by A.C.&E. Iberia S.L.

This certificate may only be reproduced in its entirety and without any change, including schedules.

[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX017X	00	First emission	06/06/2025



Date: 06/06/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

This certificate may only be reproduced in its entirety and without any change, including schedules.

