

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

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

Status: Current Date of issue: 2025-04-10 Applicant: Crown Extra Lighting Co., Ltd. Building 25-5, No. 18, Fengihuang Road. Tranning District. Changebout oity, Jangague Province Changebout oity, Jangague Province Type of Protection: Equipment: Ex bolicon-proof LED Light Fittings model BYS-moren Series Optional accessory: Yue of Protection: Type of Protection: Ex db, Ex ob, Ex mb, Ex tb Marking: Refer to general product information Approved for issue on behalf of the IECEx Mu Dayu Certification Body: Position: Corporation: Corporation: Corporation: Corporation: Corporation: The end-took of the isolation provide the isolat				
Date of Issue: 2925-94-10 Applicant: Crown Extra Lighting Co., Ltd. Building 252, No. 18, Ferginuang Road, Tianning District, Chargebound et J. Chargebound et J. Single Province Building 252, No. 18, Ferginuang Road, Tianning District, Chargebound et J. Chargebound et J. Septembound et J. Optional accessory: Wilding 254 (Margebound et J. Type of Protection: Ext db, Ex eb, Ex mb, Ex tb Marking: Refer to general product information Approved for issue on behalf of the IECEx Mu Dayu Certification Body: Position: Position: Certification Officer Signature: (for printed version) Date: (for printed version) Pate: (for printed version) 1. This certificate and adventule may only be exproved of the listuing buy. Execution of the OR Code. 1. This certificate and adventule may only be exproved of the listuing to vertified by visiting www.lesset.com or use of the OR Code. Certificate issued on the certificate may be verified by visiting www.lesset.com or use of the OR Code.	Certificate No.:	IECEx CNE 25.0002X	Page 1 of 5	Certificate history:
Applicant: Crown Extra Lighting Co., Ltd. Building 2-5, No. 19, Fenghuang Road, Tanning District, China Equipment: Explosion-proof LED Light Fittings model BYS-acce: Series Optional accessory: Type of Protection: Type of Protection: K db, Ex ob, Ex mb, Ex tb Marking: Refer to general product information Approved for issue on behalf of the IECEx Mu Dayu Certification Body: Certification Officer Position: Certification Officer Signature: (for printed version) Date: The certificate and schedule may only be reproduced in full. 1. The certificate and schedule may only be reproduced in full. Execution or use of this QR Code. 2. The certificate and schedule may only be reproduced in full. Execution or use of this QR Code. 2. The certificate and schedule may only be reproduced in full. Execution or use of this QR Code. 2. The certificate is and salientificate may be verified by visiting www.issex.com or use of this QR Code. Execution Code: 2. The certificate is stated by: Nayang Explosion Protected Electrical Apparatus Research Institute	Status:	Current	Issue No: 0	
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Certificate No.:	IECEx CNE 25.0002X	Page 2 of 5				
Date of issue:	2025-04-10	Issue No: 0				
Manufacturer:	Crown Extra Lighting Co., Ltd. Building 2-5, No.19, Fenghuang Road, Tianning District, Changzhou city, Jiangsu Province China					
Manufacturing locations:						
IEC Standard list belo found to comply with	ed as verification that a sample(s), representative of production, we ow and that the manufacturer's quality system, relating to the Ex pro- the IECEx Quality system requirements.This certificate is granted s Operational Documents as amended	oducts covered by this certificate, was assessed and				
STANDARDS : The equipment and a to comply with the fol	ny acceptable variations to it specified in the schedule of this certif lowing standards	icate and the identified documents, was found				
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requiremer	nts				
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flamepr	roof enclosures "d"				
IEC 60079-18:2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m	"				
IEC 60079-31:2022 Edition:3.0	Explosive atmospheres – Part 31: Equipment dust ignition protection	tion by enclosure "t"				
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increas	ed safety "e"				
	This Certificate does not indicate compliance with safety and other than those expressly included in the Standa					
TEST & ASSESSMENT REPORTS:						

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

Test Report:

CN/CNE/ExTR25.0002/00

Quality Assessment Report:

NL/CNEX/QAR22.0002/01



Certificate No.:

IECEx CNE 25.0002X

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Date of issue:

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

- The BYS-DDD series Explosion-proof LED Light Fittings (hereinafter referred to as lighting fittings) is type of "db eb mb". The seal strip in the joints in order to conform to the structural requirements of dust ignition protection.

- For BYS-DDE series Explosion-proof LED Light Fittings, IECEx certified Ex LED module, Ex driver power supply, Explosion-proof terminal block, Explosion-proof travel switch, reflector, positioning card etc. are installed inside Ex e enclosure.

- For BYS- DDDEM1~EM4 series Explosion-proof LED Light Fittings, IECEx certified Ex LED module, Ex driver power supply, Ex emergency power supply(with battery), Explosion-proof terminal block, Explosion-proof travel switch , reflector, positioning card etc. are installed inside Ex e enclosure

For nomenclature and further details, see Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The ambient temperature range is limited to:

- For BYS- DDEn, BYS- DDEM2, BYS- DDEM3 and BYS- DDEM4 series Explosion-proof LED Light Fittings:-40°C...+40°C/+55°C.

- For BYS- DDDEM1 series Explosion-proof LED Light Fittings:-20°C...+40°C/+55°C.

2. To avoid explosion risks from static electricity, clean the lamp surface only with a wet cloth.

3. The schedule of limitations in the certificate for the Ex components used inside the explosion-proof light must be fulfilled.

4. Before application, separate IECEx certified cable gland are to be used, suitable for the conditions of use, rated minimum IP66 and correctly installed.

5. When using external emergency power supply, the external power supply and the main circuit power supply are not allowed to work simultaneously. The external emergency power supply should be located in a safe zone or meet explosion-proof requirements



Date of issue:

Issue No: 0

Equipment (continued):

- The Ex e enclosure of lighting fittings consist of body, lamp shade, The seal strip in the joints in order to conform to the structural requirements of dust ignition protection. The lamp shade is secured to the body with snap-fit mechanisms to fit, and The 2 latches on the diagonal corners of each light fittings enclosure have non-removable screws that can only be loosened or removed from the Ex e enclosure with a tool, The body is made of SMC plastic with min. thickness of 3.2mm, The transparent cover is made of PC Makrolon 2807 plastic with min. thickness of 3mm.

- There are most four cable entries on the body.

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Issue No: 0

Additional information:

The enclosure of Explosion-proof LED Light Fittings model BYS-

Annex:

Annex to Certificate IECEx CNE 25.0002X issue 0.pdf



Equipment or Protective System:	Explosion-proof LED Light Fittings
Manufacturer:	Crown Extra Lighting Co., Ltd.
Address:	Building 2-5, No.19, Fenghuang Road, Tianning District, Changzhou city, Jiangsu Province, China

Nomenclature:

Explosion-proof LED Light Fittings- Type BYS-DDD series Rated power: - BYS-01DDD: 10W, 15W, 20W, 30W, 40W

- BYS-02 ...: 20W, 30W, 40W, 50W, 60W

Ex marking: Refer to table 1.

Detail Technical Parameter: Refer to table 1

Table 1

No	Model	Input voltage/ Frequency	Power	Emergen cy power	Emergency voltage	Ex marking	Ambient temperatur e
1	BYS-01□□En		10W, 15W, 20W,			Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40℃~ +40℃
-	bis officient	30W,	30W, 40W	80W,		Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
2	BYS-02□□En		20W, 30W, 40W,			Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40℃~ +40℃
2		50W,	50W, 60W			Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
3	BYS-		10W, 15W, 20W,		3.6V- 3000mAh Ni- Cd battery	Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-20℃~ +40℃
5	0100EM1		30W, 40W	- 3.5W	Emergency power supply Cell: Type	Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-20℃~ +55℃
4	BYS-	AC110~27 20W, BYS- 7V 30W, 40W,	5.5 VV	KRH26/51(KRH26/51(C) 3000TX3,	Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-20℃~ +40℃
7	0200EM1	50/60Hz	50W, 60W		capacity: 3000mAh, Nominal	Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-20℃~ +55℃

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				voltage:1.2V		
5	BYS-	10W, 15W, 20W,			Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40℃~ +40℃
	0100EM2	30W, 40W	- 7W		Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
6	BYS-	20W, 30W, 40W,			Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40°C∼ +40°C
0	0200EM2	50W, 60W		9.6V-	Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
7	BYS-	10W, 15W, 20W,		3500mAh lithium iron phosphate battery	Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40℃~ +40℃
	0100EM3	30W, 40W	10W	Emergency power supply	Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
8	BYS-	20W, 30W, 40W,		Cell: Type IFR26650, Rated	Ex db eb mb IIC T6 Gb, Ex tb IIIC T80 $^{\circ}\mathrm{C}$ Db	-40℃~ +40℃
0	02¤¤EM3	50W, 60W		capacity: 3500mAh, Nominal	Ex db eb mb IIC T5 Gb, Ex tb IIIC T80 $^{\circ}\!$	-40℃~ +55℃
9	BYS-	10W, 15W, 20W,		voltage:3.2V.	Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40°C∼ +40°C
9	0100EM4	30W, 40W	80W,		Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃
10	BYS-	20W, 30W, 40W,	- T2AA		Ex db eb mb IIC T6 Gb, Ex tb IIIC T80℃ Db	-40℃~ +40℃
10	02□□EM4	40W, 50W, 60W			Ex db eb mb IIC T5 Gb, Ex tb IIIC T80℃ Db	-40℃~ +55℃

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The following models are covered by this certificate:

S/N	BYS	-								
Code	а		b	С	d	e				
а	Explosion-pr	Explosion-proof LED Light Fittings								
b		Enclosure size 01=Short enclosure, 02=Long enclosure								
c	Dimming A=Non-Dim	Dimming A=Non-Dimming, B=Dimming								
d	Power 10=10W, 15=15W, 20=20W, 30=30W, 40=40W, 50=50W, 60=60W									
e	En=No emergency Emergency EM1=Internal battery Emergency, Emergency power 3.5WEM2= Internal battery Emergency, Emergency power 7W EM3=Internal battery Emergency, Emergency power 10WEM4= Internal battery Emergency, Emergency power 15W									

- List of Ex components/Ex equipment and installed inside type BYS-DDD Explosion-proof LED Light Fittings

No.	Туре	Ex marking IP degree	Certificate No.	Service temperature	Standards
1	Ex LED module GYD330-36	Ex mb IIC Gb	IECEx CNE 25.0006U	-40°C~+115℃	IEC 60079-0:2017 IEC 60079- 18:2017
2	Ex driver power supply GYD300□-□	Ex eb mb IIC Gb	IECEx CNE 25.0007U	- 40°C~+100 ℃	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079- 18:2017
3	Ex emergency power supply	Ex eb mb IIC Gb	IECEx CNE 25.0008U	-40°C +100°C	IEC 60079-0:2017

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	GYD320-□			Ni-Cd battery:	IEC 60079-7:2017
				-20℃~+70℃	IEC 60079- 18:2017
				Lithium iron phosphate battery:	
				-40℃ ~ +70℃	
4	Explosion-proof terminal block GYD3403-D, GYD3405-D Rated voltage: Max. 400V AC/DC Rated current: Max. 16A	Ex eb IIC Gb	IECEx CNE 25.0004U	-40°C~+100°C	IEC 60079-0:2017 IEC 60079-7:2017
5	Explosion-proof travel switch GYD360-5 Rated voltage: Max. 400V AC/DC Rated current: Max. 5A	Ex db IIC Gb	IECEx CNE 25.0005U	-40°C~+80°C	IEC 60079-0:2017 IEC 60079-1:2014

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

1. Routine electric strength tests must be conducted according to Clause 7.1 of IEC 60079-7, as follows: The BYS- \Box \Box \Box \Box Series Explosion-proof LED Light Fittings must be subjected to a (1000V+2Un) \times 1.2 frequency voltage withstand test, during minimum 100ms.

2. For Group II equipment of BYS- $01 \square \square \square$ Series Explosion-proof LED Light Fittings should be subjected to routine testing for maximum surface temperature which is not higher than the temperature or temperature class marked on the product

<u>Descriptive Documents:</u> Detailed in the Test Report Cover document. (ref.CQST/ExTR2501G009)

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