



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 TUR 24.0058X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-10-17		
Applicant:	Rawabi Electric Co. Dammam 2nd Industrial City, P.O. Box 3056, Al-Khobar 31952 Saudi Arabia		
Equipment:	LED Explosion proof Light Ex-BCT Series		
Optional accessory:			
Type of Protection:	Ex db, mb, tb		
Marking:	Ex db mb IIC T4 Gb Ex tb IIIC T130°C Db IP66		

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. -Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





IECEx Certificate of Conformity

Certificate No.: **IECEx TUR 24.0058X**

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Date of issue: 2024-10-17

Issue No: 0

Manufacturer: **Rawabi Electric Co.**
Dammam 2nd Industrial City
P.O. Box 3056
Al-Khobar 31952
Saudi Arabia

Manufacturing
locations:

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 equipment 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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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

DE/TUR/ExTR24.0058/00

Quality Assessment Report:

NL/DEK/QAR13.0046/06



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Certificate No.: **IECEx TUR 24.0058X**

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Date of issue: 2024-10-17

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Ex-BCT series LED explosion-proof light includes two parts :

1. LED driver: The LED driver installed in a flameproof enclosure with a M25 cable gland, and the type of protection of the enclosure is "db". For Emergency light, the driver includes a Ni-cad battery pack in the flameproof enclosure.
2. Light source module: the module designed with type of protection "mb".

Ex-BCT series LED explosion-proof lighting used type of protection "tb", "db" and "mb", the LED explosion-proof lighting using LED light source. The shell is made from Al Alloy, have high strength, light weight, high security and stability. The Light-transmitting part is made of tempered glass.

Equipment Temperature Group: T4.

Equipment category: 2

Equipment gas group: IIC

It can be used in Zone1, Zone 2, Zone 21 and Zone 22 area.

Ambient temperature:

-45°C to +55°C. /for model Ex-BCT LED Explosion-proof Emergency Light (without battery module)

-10°C to +50°C. /for model Ex-BCTE LED Explosion-proof Emergency Light (with battery module)

SPECIFIC CONDITIONS OF USE: YES as shown below:

The clamping of the cable gland is guaranteed only by the clamping device (Crimp sheet) used according to the manufacturer's instruction Clause 4.4 and Clause 4.5.

Annex:

[DE-IECEx_TUR_24.0058_X_00_Attachment_2024-10-17.pdf](#)



Attachment to Certificate
IECEX TUR 24.0058X
Revision 0

Attachment to Certificate IECEX TUR 24.0058X

Device: LED Explosion-proof Light
Type: Ex-BCT Series

Manufacturer: Rawabi Electric Co.

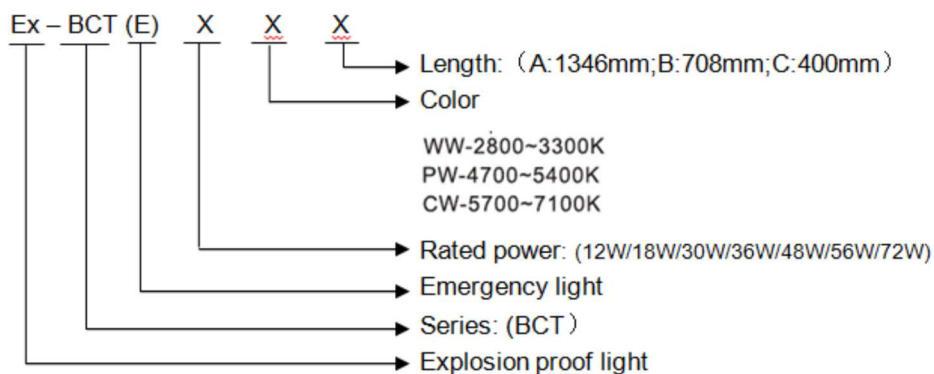
Address: Dammam 2nd Industrial City, P.O. Box 3056, Al-Khobar 31952, Saudi Arabia

General product information:

Ex-BCT series LED explosion-proof light includes two parts :

1. LED driver: The LED driver installed in a flameproof enclosure with a M25 cable gland, and the type of protection of the enclosure is "db". For Emergency light, the driver includes a Ni-cad battery pack in the flameproof enclosure.
2. Light source module: the module designed with type of protection "mb".

Type designation:



Equipment parameter and working condition:

Ex-BCT LED Explosion-proof Light

Product type	Ex - BCT72	Ex - BCT56		Ex - BCT48			Ex - BCT36		Ex - BCT30	Ex - BCT18	
Power	72W	56W		48W			36W		30W	18W	
Rated voltage /Frequency	100-277 VAC/ 47~62Hz	100-277 VAC/ 47~62Hz		100-277 VAC/ 47~62Hz			100-277 VAC/ 47~62Hz		100-277 VAC/ 47~62Hz	100-277 VAC/ 47~62Hz	
Size (mm)	1346×160×118	708×160×118	1346×160×118	400×160×118	708×160×118	1346×160×118	400×160×118	708×160×118	400×160×118	400×160×118	708×160×118
Weight (Kg)	7	3.5	7	2	3.5	7	2	3.5	2	2	3.5
Ambient temperature	-45°C to +55°C										



Attachment to Certificate
IECEX TUR 24.0058X
Revision 0

Ex-BCT LED Explosion-proof Emergency Light

Product type	Ex – BCTE48		Ex – BCTE36		Ex – BCTE30	Ex – BCTE18		Ex – BCTE12
Power	48W/ 10W		36W/ 10W		30W/ 10W	18W/ 10W		12W/ 10W
Rated voltage/ Frequency	100-277 VAC/ 47~62Hz		100-277 VAC/ 47~62Hz		100-277 VAC/ 47~62Hz	100-277 VAC/ 47~62Hz		100-277 VAC/ 47~62Hz
Battery voltage/DC	12V/ 1.5Ah		12V/ 1.5Ah		12V/ 1.5Ah	12V/ 1.5Ah		12V/ 1.5Ah
Size (mm)	400×16 0×118	708×1 60×11	400×16 0×118	708×16 0×118	400×160 ×118	400×16 0×118	708×16 0×118	400×160×1 18
Weight (Kg)	2.2	3.9	2.2	3.9	2.2	2.2	3.9	2.2
Ambient temperature	-10°C to +50°C							

“Specific Conditions of Use” for Ex Equipment:

The clamping of the cable gland is guaranteed only by the clamping device (Crimp sheet) used according to the manufacturer’s instruction Clause 4.4 and Clause 4.5.