



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 CQM 23.0001X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2023-01-09)
Date of Issue:	2024-06-24		
Applicant:	WAROM TECHNOLOGY INCORPORATED COMPANY No. 555 Baoqian Road, Jiading District, Shanghai, 201808 China		
Equipment:	Explosion-proof terminal box typed BXJ8050-*/*		
Optional accessory:			
Type of Protection:	Increased safety "eb", Encapsulation "mb" and Dust ignition protection by enclosure "tb"		
Marking:	Ex eb IIC T6/T5 Gb (Without fuse module), Ex eb mb IIC T6/T5 Gb (With fuse module) Ex tb IIIC T80°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Ji Xiaodong

President 2024-06-24

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:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China

CQM
China Quality Mark



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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

[CN/CQM/ExTR23.0003/00](#) [CN/CQM/ExTR23.0003/01](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BXJ8050 series explosion-proof terminal box can be used in Zone 1 and Zone 2 hazardous areas where Group II explosive gas or vapour presents with T1 to T6 classification, and Zone 21 and Zone 22 combustible dust atmosphere. The terminal box consists of body, cover, mounting plate, several increased safety terminals (IECEx CQM 23.0003U) and optional encapsulated fuse module (IECEx CQM 23.0002U). The body and cover are made of SMC, and the terminal box adopts PU rubber sealing strip to achieve the requirements of ingress protection. The enclosure has ingress protection IP66 according to the requirement of IEC 60529.

BXJ8050- * / * / *

① ② ③

① indicates case model, where can be I or IV

② indicates rated current, 50A

③ indicates number of terminals, up to 6.

Rated voltage: Max. 1000V without fuse module, Max. 500V with fuse module

Rated current: Max. 50A. for terminals, Max. 10A for fuse module

Relation between temperature class and the ambient temperature:

With or without fuse: $T_a = -60^{\circ}\text{C} \sim +40^{\circ}\text{C}$, T6

Without fuse: $T_a = -60^{\circ}\text{C} \sim +60^{\circ}\text{C}$, T5

With fuse: $T_a = -60^{\circ}\text{C} \sim +50^{\circ}\text{C}$, T5

List of separated certified components:

Ex component	IECEx CoC	Service temperature/°C	Standards
Terminal HRDZ-50	IECEx CQM 23.0003U	-60°C ~+100°C	IEC 60079-0:2017, IEC 60079-7:2017
Fuse module BRT8060-*D	IECEx CQM 23.0002U	-60°C ~+90°C	IEC 60079-0:2017, IEC 60079-7:2017, IEC 60079-18:2017
Blanking elements BPT	IECEx LCIE 15.0070U	-60°C ~+100°C	IEC 60079-0:2011, IEC 60079-1:2014, IEC 60079-7:2006, IEC 60079-31:2013

Note: The difference between the standards for Ex-Component and the standards for this product does not invalidate the conformity of the terminal box.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The ambient temperature is $-60^{\circ}\text{C} \sim +40^{\circ}\text{C}$ or $-60^{\circ}\text{C} \sim +50^{\circ}\text{C}$ or $-60^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
2. Cable glands installed in the terminal box shall be IECEx certified and suitable Equipment Protection Level (EPL) shall be achieved. The cable glands and blanking elements shall be at least EPL Gb/Db and rated at least IP66.
3. Observe the warning "WARNING –DO NOT OPEN WHEN ENERGIZED."
4. Observe the warning "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS." when install and operate in combustible dust atmosphere.
5. When the product is used in an atmosphere with maximum ambient temperature 60°C, the cable withstand at least 95°C shall be used.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Update the ambient temperature from -40°C~+40°C/+50°C/+60°C to -60°C~+40°C/+50°C/+60°C.
2. Update the sealing ring between the enclosure and the enclosure cover from polyurethane to silicone rubber.