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 13.0031X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2013-08-26)
Date of Issue:	2019-05-07		
Applicant:	**Warom Technology Incorporated Company** No.555, Baoqian Road, Jiading District, Shanghai, 201808, P.R.China **China**		
Equipment:	**Terminal box BXJ8050 series**		
Optional accessory:			
Type of Protection:	**Increased safety "e", Protection by enclosure "t", Intrinsic safety "i"**		
Marking:	Ex e IIC T6 or T5 Gb T6: -40°C≤Ta≤+40°C, T5: -40°C≤Ta≤+55°C Ex tb III C T80°C Db IP66 -40°C≤Ta≤+55°C Ex ia IIC T6 Ga -40°C≤Ta≤+55°C		

Approved for issue on behalf of the IECEx Certification Body: **Ji Xiaodong**

Position: **General Manager**

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

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Manufacturer: **Warom Technology Incorporated Company**
No.555, Baoqian Road, Jiading District, Shanghai, 201808, P.R.China
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11:2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:5

IEC 60079-31:2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

IEC 60079-7:2006 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

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/ExTR13.0047/00 CN/CQM/ExTR13.0047/01

Quality Assessment Report:

CN/CQM/QAR07.0003/09

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Description of equipment

The BXJ8050 series terminal box is comprised of an enclosure and a cover, both are manufactured from SMC-2. A terminal, a rail are installed in the compartment. The entry holes are blocked by plugs. When cables or conductors go into the box and are connected to the terminal in the box, only suitably certified cable glands and blanking plugs can be used.
For increased safety terminal box, the type SAK or WDU and WPE terminals are installed in the enclosure.
For intrinsic safety terminal box, the type M terminals were installed in the enclosure.

The type SAK terminals were certified under IECEx KEM 06.0014U. The insulating material of the type SAK terminals is KrG. The standards followed by the type SAK terminals under certificate IECEx KEM 06.0014U are IEC 60079-0:2004 and IEC 60079-7:2001. The differences between IEC 60079-0:2004 and IEC 60079-0:2011, between IEC 60079-7:2001 and IEC 60079-7:2006 are not relevant to the terminals.Type WDU and WPE terminals were certified under IECEx ULD 14.0005U. Type WPE is protective conductor terminal blocks. The type M terminals were LCIE 02 ATEX 0014U/02. The standards followed by the type M terminals under certificate LCIE 02 ATEX 0014U/02 are EN 60079-0:2004 and EN 60079-11:2007. The differences between EN 60079-11:2007 and IEC 60079-11:2006 are not relevant to the terminals.

Rating

Rated voltage: 690VAC and below, For intrinsic safety terminal box: rated current: 5A. For increased safety terminal box rated current, see the following table.

The type, maximum dissipated power, current, the tightening torque and the section of conductor are following:

Section of conductor		$2.5mm^2$	$4mm^2$	$6mm^2$	$10mm^2$	$16mm^2$	$35mm^2$
Type of terminal		SAK2.5 EN WDU2.5 WDU2.5N	SAK4 EN WDU4 WDU4N	SAK6 EN WDU6	SAK10 EN WDU10	SAK16 EN WDU16	SAK35 EN WDU35 WDU35N
Terminal current (A)		20	28	35	45	60	100
Tightening torque (Nm)	SAK*	0.6	1.0	1.6	2.4	4.0	5.0
	WDU*	0.4～0.8(2.5) 0.4～0.6(2.5N)	0.5～1.0	0.8～1.6	1.2～2.4	2.0～4.0	4.0～5.0

Maximum Dissipated Power(W)	Model						
	BXJ8050-I	BXJ8050-II	BXJ8050-III	BXJ8050-IV	BXJ8050-V	BXJ8050-VI	BXJ8050-VII
	2.30	6.81	6.50	14.32	28.08	7.92	25.00

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. For the terminal box with type of protection increased safety “e“ , the ambient temperature is -40°C≤Ta≤+40°C(for T6) or -40°C≤Ta≤+55°C(for T5). For the terminal box with type of protection intrinsic safety “i"and type of dust ignition protection by enclosure “t“ , the ambient temperature is -40°C≤Ta≤+55°C.
2.The terminal box with type of protection intrinsic safety is a simple apparatus, when it form part of an equipment containing other electrical circuits, the whole shall be assessed according to the requirements of IEC 60079-11.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1.Alternalive type WDU and WPE terminals with type of protection increased safety can be used. Type WPE is protective conductor terminal blocks.

2.The standards IEC60079-0:2007 is updated to IEC60079-0:2011.