



# 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](http://www.iecex.com)

Certificate No.: **IECEx CQM 11.0010X** Page 1 of 5 Certificate history:  
Status: **Current** Issue No: 2 Issue 1 (2016-01-29)  
Date of Issue: **2019-11-19** Issue 0 (2011-08-31)  
Applicant: **WAROM Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District  
Shanghai, 201808  
China  
Equipment: **Explosion-proof light fittings HRD61-150 -□-□-□-□**  
Optional accessory:  
Type of Protection: **Ex "d", "t"**  
Marking: **Ex db II C T3...T4 Gb; Ex tb IIIC T190°C...T130°C Db IP66**  
Tamb informations are specified in description of equipment.

Approved for issue on behalf of the IECEx  
Certification Body:


Ji Xiaodong

Position:

General Manager

Signature:  
(for printed version)

Date:

  
2019-11-19

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China







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Manufacturer: **WAROM Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District  
Shanghai, 201808  
**China**

Additional  
manufacturing  
locations: **WAROM Technology Mena Fzco**  
Plot No.S31223, Jebel Ali Free Zone  
Dubai 263667  
**United Arab Emirates**

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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**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 Reports:

CN/CQM/ExTR11.0010/00

CN/CQM/ExTR11.0010/01

CN/CQM/ExTR11.0010/02

Quality Assessment Report:

CN/CQM/QAR07.0003/09



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Nomenclature

HRD61-150-□-□-□-□

HRD61-150 Explosion-proof light fittings

First□: Lamp power HSE: High pressure sodium lamp

HME: High pressure mercury lamp

HIE: Metal halide lamp

Second □: Lamp power: 70,100,150(HIE); 70,100(HSE); 80,125(HME)

Third □: Mounting G: Pendant pole type B: Wall type L: Pole type X: Ceiling type D: Hook type

Fourth □: Reflector Type A (optional) Type B

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The flameproof joint cannot be repaired.
2. Only use cables suitable for 90 °C.
3. The explosion-proof light fittings should be mounted only in accordance with manufacturer's instruction.
4. Light source power , ambient temperature and temperature classification are specified in description of equipment.





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## Equipment (continued):

### Description of equipment

HRD61-150 explosion-proof light fittings are of type "d" and type "tD". The enclosure material is aluminium alloy. The material of light transmitting part is toughened glass. The enclosure is comprised of a light source compartment and a terminal compartment. These two compartments are divided by a lower connection board. The lower connection board and enclosure form flameproof joints. A lampholder, a reflector, and a ballast, a compensation capacitor and a lamp are installed in the light source compartment. For type HRD61-150-HME the compensation capacitor is not installed. The light sources can be high pressure sodium lamps, metal halide lamp or high pressure mercury lamp. For type HRD61-150-HSE and type HRD61-150-HIE, a trigger is external to the light source compartment. The wires from the light source compartment to the trigger compartment are encapsulated.

The relationship of Temperature classification and ambient temperature are shown as following:

Type	Rated Voltage	Lamp	Temperature Classification				Ingress Protection
			-60°C≤Ta≤+40°C		-60°C≤Ta≤+55°C		
HRD61-150- □□□□	220...240V AC 50/60Hz	HIE	T4	130°C	T3	190°C	IP66
		HME					
		HSE	/	/	T4	130°C	

### Rating

Rated voltage: 220V ~ 240V AC 50/60Hz

Power of lamp: high pressure sodium lamp: 70W, 100W; metal halide lamp: 70W, 100W, 150W; high pressure mercury lamp: 80W, 125W.

### Routine test:

The enclosures of the HRD61-150 explosionproof light fittings are submitted to static overpressure test. Test pressure for terminal compartment is 1.75MPa, the light source compartment is 2MPa. Test duration: 10s to 12s. The volume of the trigger compartment is less than 10cm<sup>3</sup>, So it is free of overpressure test. The routine test is considered satisfactory if the enclosure suffers no permanent deformation or damage affecting the explosion-proof performance and the joints in no place are permanently enlarged.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- 1.The standards IEC60079-0:2007, IEC60079-1:2007 and IEC60079-31:2008 are updated to IEC60079-0:2017, IEC60079-1:2014 and IEC60079-31:2013.
- 2.The compensation capacitor is moved from outside of the light body to inside the inside the light body.