

# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx CQM 13.0026X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 1 (2016-02-01)  
Date of Issue: **2016-02-01** Issue No. 0 (2013-08-13)  
Applicant: **Warom Technology Incorporated Company**  
No.555, Baoqian Road, Jiading District, Shanghai, 201808  
**China**  
Electrical Apparatus: **Portable searchlight HRD305**  
*Optional accessory:*  
Type of Protection: **Flameproof enclosure "d", Intrinsic safety "i", Protection by enclosure "t"**  
Marking: **Ex d ia IIC T6 Gb / Ex tb III C T80°C Db IP68**

Approved for issue on behalf of the IECEx  
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:  
(for printed version)

Date:

2016-02-01

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 the Official IECEx Website.

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  
**China**

Additional Manufacturing  
location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2006</b> Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

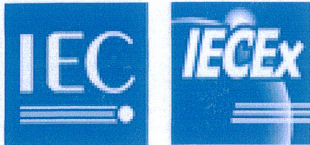
*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

CN/CQM/EXTR13.0029/00 CN/CQM/EXTR13.0029/01

Quality Assessment Report:

CN/CQM/QAR07.0003/05



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

### Description of equipment

HRD305 portable searchlight is comprised of a lamp body, a lamp holder ring, a handle, which are made of 6063, a base which is made of ENAC-AISi12(b), and a glass light-transmitting part. A reflector, a PCB box, an insulation plate, a radiator and Li-ion batteries are installed inside. There is a intrinsic safe touch switch, green and red power indicators in the handle. The part for wire-through between switch and lamp body is encapsulated. Both positive and negative charging sockets pass through the wall of the enclosure. The charging sockets are moulded plastic pieces with metal conducting pods surrounded by the plastic. The searchlights are powered by a rechargeable battery pack containing four cylindrical li-ion batteries in series. Intrinsic safety part which includes only switch SW1 installed in the handle, is isolated from non-intrinsically safety part by current-limiting\_resistor\_s installed in the explosion-proof enclosure. Diodes are provided to prevent the presence of electricity on charging socket.

### Rating

Rated voltage: 14.8V; rated power: 9W/3W

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. Repair of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 3 of IEC 60079-1.
2. Do not open when an explosive gas atmosphere is present.
3. Do not charge in a hazardous area.
4. The battery cannot be replaced.



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

The model of BAD305 Portable searchlight is changed to HRD305.