

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				
Certificate No.:	IECEx TPS 17.0007X	ls	ssue No: 0	Certificate history: Issue No. 0 (2017-11-02)
Status:	Current			1550e No. 0 (2017-11-02)
Date of Issue:	2017-11-02	P	age 1 of 3	
Applicant:	NEW WISDOM INVESTMENT LIMITED ROOM 1501 GRAND MILLENNIUM PLAZA (LI CENTRAL Hong Kong	OWER BLOCK)181 QUEE	N'S ROAD	
Equipment:	Caplight for use in mines			
Optional accessory:				
Type of Protection:	"ia" "op is"			
Marking:	Ex ia op is I Ma IEC 60079-35-1 (0°C≤Ta≤40'	°C) IP54		
Approved for issue on behalf of the IECEx Certification Body:		Frank Zhu		
Position:		Technical Certifier		
Signature: (for printed version)		Frank (the	
Date:			2-17-1	11-02
2. This certificate is not	schedule may only be reproduced in full. I transferable and remains the property of the iss enticity of this certificate may be verified by visiti	uing body.		

TÜV SÜD Product Service GmbH Ridlerstr. 65 D-80339 Munich Germany





IECEx Certificate of Conformity

Certificate No:	IECEx TPS 17.0007X	Issue No: 0
Date of Issue:	2017-11-02	Page 2 of 3
Manufacturer:	NEW WISDOM INVESTMENT LIMITED ROOM 1501 GRAND MILLENNIUM PLAZA (LOWER BLOCK)181 QUEEN'S ROAD CENTRAL Hong Kong	

Additional Manufacturing location(s):

SHENZHEN ZHONGFUNENG ELECTRIC EQUIPMENT CO.,LTD 1F/4F, 9 ZhangBei Avenue,ZhangBei Village,Ailian Community,Longcheng Street,Longgang District,518172,Shenzhen China

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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-35-1 : 2011 Edition:1.0	Explosive atmospheres – Part 35-1: Caplights for use in mines susceptible to firedamp – General requirements – Construction and testing in relation to the risk of explosion

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:

GB/CML/ExTR17.0149/00

Quality Assessment Report:

DE/TPS/QAR17.0008/00



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		Schedule		

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Model WISDOM-KL5M-11, WISDOM-KL8M-05, WISDOM-KL12M-03 are caplights with cord for use in mines. These caplights are Group I Equipment with EPL Ma. They are comprised of battery enclosure, interconnection cable and head piece. All of them are supplied by Li-ion batteries in parallel. They have the same circuit diagram and PCB layout. The difference between the models are the numbers of batteries in parallel, dimension of battery enclosure and the type reference of Li-ion batteries. See model difference and rating in annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1) Operating temperature: 0°C≤Ta≤40°C.

2) Charging temperature(in non-hazardous location): 0°C≤Ta≤40°C.

3) Only use the battery char ger from NEW WISDOM to charge the caplight.

Warning label

WARNING: DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

Annex:

Annex to COC IECEx TPS 17.0007X.pdf



IECEx Certificate of Conformity



Order no. 6410516062920	01 Client no.01635
Annex to certificate:	IECEx TPS 17.0007X
Applicant:	New Wisdom investment limited
	Room 1501 Grand millennium plaza (lower block)
	181 Queens road central
	Hongkong
Apparatus:	Caplight for use in mines
Type(s)	WISDOM-KL5M-11, WISDOM-KL8M-05, WISDOM-KL12M-03

Description of equipment

Model WISDOM-KL5M-11, WISDOM-KL8M-05, WISDOM-KL12M-03 are caplights with cord for use in mines. These caplights are Group I Equipment with EPL Ma. They are comprised of battery enclosure, interconnection cable and head piece. All of them are supplied by Li-ion batteries in parallel. They have the same circuit diagram and PCB layout. The difference between the models are the numbers of batteries in parallel, dimension of battery enclosure and the type reference of Li-ion batteries.

See model difference in the following table.

Model difference

Model no.	Rated voltage	Battery type reference	Battery number	Rated capacity	Dimension of battery enclosure
WISDOM-KL5M-11	3.7V d.c.	UR18650ZY	3	7800mAh	85 x 94 x 36 mm
WISDOM-KL8M-05	3.7V d.c.	UR18650ZY	4	10400mAh	103 x 94 x 36 mm
WISDOM-KL12M-03	3.7V d.c.	NCR18650B	4	14000mAh	103 x 94 x 36 mm

Rated characteristics

WISDOM-KL5M-11	WISDOM-KL8M-05	WISDOM-KL12M-03		
3.7V				
7800mAh	10400mAh	14000mAh		
0 ≤ Ta ≤ 40°C				
0 ≤ Ta ≤ 40°C				
IP54 (tested according to IEC 60079-0)				
	7800mAh 0 ≤ Ta ≤ 40°C 0 ≤ Ta ≤ 40°C	3.7V 7800mAh 0 ≤ Ta ≤ 40°C 0 ≤ Ta ≤ 40°C		

Warning label

WARNING: DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION. DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

Routine tests

No

Special conditions for safe use

1) Operating temperature: 0°C≤Ta≤40°C.

2) Charging temperature(in non-hazardous location): 0°C≤Ta≤40°C.

3) Only use the battery charger from NEW WISDOM to charge the caplight.

Title: Annex to CoC IECEx TPS 17.0007X Revision: 00 Effective:02-11-2017 Page 1 of 1

TÜV®

TÜV SÜD Product Service GmbH Certification Body for Products Ridlerstraße 65 80339 Munich Germany