

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU – Annex III

[3]

Certificate Number: **EPT 17 ATEX 2621X** **issue 1**

[4]

Equipment: **LED Multi purpose Portable Lamp**

Type:

WISDOM LAMP 3A, WISDOM LAMP 3 Plus, WISDOM LAMP 3B, WISDOM LAMP 3C, WISDOM LAMP 3D

[5]

Manufacturer: **NEW WISDOM INVESTMENT LIMITED**

[6]

Address: **1F and 4F, No.9, ZhangBei Avenue, ZhangBei Village, Ailian Community, LongCheng Street, LongGang District, ShenZhen City, Guangdong Province, P.R. China**

[7]

This equipment and its accepted variations are specified in the annex to this Certificate.

[8]

Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N°EPT.19.REL.01/1913006

[9]

Compliance with the essential health and safety is assured through the verification of them and by compliance with the standard:

EN60079-0:2012+A11:2013; EN60079-11:2012; EN 60079-28:2015

[10]

If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11]

This EU -TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12]

The equipment shall include the sign  and the following string:

II 2G Ex ib op is IIB T4 Gb

-20°C ≤ Ta ≤ +40°C

Place and date of issue:

Torino, 2019-12-20



Dionisio Bucchieri
Dionisio Bucchieri
Directive Responsible

Paolo Trisoglio
Paolo Trisoglio
Managing Director

eurofins Product Testing Italy
eurofins
Notified Body N. 0477



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This Certificate has 6 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

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[15] Equipment description

WISDOM LAMP 3 Series LED Multi purpose Portable Lamp can be used in Zone 1 hazardous areas where IIB gases, vapours and air may exist with temperature class T4.

WISDOM LAMP 3 series includes five individual models: 3A, 3Plus, 3B, 3C and 3D. The housing is made of PC, enclosed by top and bottom cover glue-sealed together, with lithium cells and LED module (main light, auxiliary light and charging indicator) situated in. On the side of bottom cover is a plain hole drilled for installation of switch button. Panasonic (UR18650ZY -2450mAh or NCR18650PF-2700mAh or NCR18650B-3200mAh or NCR18650BF-3200mAh or NCR18650GA-3300mAh single section capacity) lithium batteries are equipped. Charging the battery shall be made in non-hazardous location only. The lamp shall be supplied by an intrinsically DC power supply and with an Ex marking not less than: Ex ib II Gb; the output voltage of intrinsically DC power supply should be 4.8V or 5.0V; the output current of intrinsically DC power supply should be no more than 500mA. The batteries can only be charged made in non-hazardous location.

The degree of protection of enclosure is IP54 according to EN 60079-0 and EN 60529.

Electrical and mechanical parameters

Features	Specifications			
Model	WISDOM LAMP 3A	WISDOM LAMP 3B WISDOM LAMP 3Plus	WISDOM LAMP 3C	WISDOM LAMP 3D
Rated Capacity	≥ 6.4 Ah	≥ 5 Ah	≥ 3.2 Ah	≥ 2.6 Ah
Rated voltage	3.7 V			
Charging voltage	4.8V or 5.0V			
Charging current	0.5 A			

Warning label

WARNING – BATTERY REPLACEMENT IS STRICTLY PROHIBITED

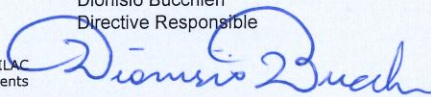
WARNING – DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT


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**Routine tests**

None

[16] Assessment Report n°EPT.19.REL.01/1913006

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] Special condition for a safe use

The lamp shall be supplied by an intrinsically DC power supply and with an Ex marking not less than: Ex ib II Gb; the output voltage of intrinsically DC power supply should be 4.8V or 5.0V; the output current of intrinsically DC power supply should be no more than 500mA. The intrinsically DC power supply is only for charge.

[18] Essential Health and Safety Requirements

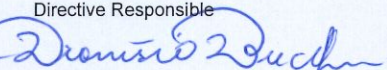
Assured by compliance with harmonized standards.



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[19] Descriptive documents

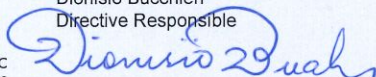
The equipment objects of this Certificate are described by the following documents that are schedule documents and cannot be modified without the explicit authorization of the Notified Body.

Document	Drawing No.	Rev.	Date
Technical file	-	A.02	01/06/2015
Material quality report of Epoxy PX439XS	-	A.02	01/06/2015
Material quality report of ANSI: FR-4	-	A.02	01/06/2015
Material quality report of Shell material report	-	A.02	01/06/2015
Operation instruction for Batteries encapsulation	-	A.02	01/06/2015
Instruction Manual	-	A1	24/01/2019
The battery information	-	A 02	-
PCB			
M1 Battery Protection Board Bottom Clearance	NBW-PCB-BPWOB	V1.00	15/01/2014
M1 Battery Protection Board TOP Clearance	NW-PCB-BPBWOT	V1. 0	15/01/2014
M2 M3 M4 Lamp circuit board bottom clearance	NW-PCB-LCBWOB	V1.00	15/01/2014
M2 M3 M4 Lamp circuit board top clearance	NW-PCB-LCBWOT	V1.00	15/01/2014
M2 M3 M4 (3.68-PCB-Model)	NW-PCB-WL001-EX	V1.00	01/06/2015
M2 M3 M4 (3.68 components drawing-Model)	NW-PCB-W 002-EX	V1.00	01/06/2015
M1 (The W3C protection board PCB - Model)	NW-PCB-BPB01-EX	V1.00	01/06/2015
M1 (The W3C protection board component drawing - Model)	NW-PCB-BPB02-EX	V1.00	01/06/2015
BOM of Lamp circuit board	NW-BO -ZPY054	A1	23/04/2019
Q8, Q1 Mosfet datasheet	-	V1.00	01/06/2015
Technical drawings			
Assembly drawing	R&D032-WISDOM LAMP 3C-EX	V00	01/06/2015
Outside View	R&D032-WISDOM LAMP 3C-EX	V00	01/06/2015


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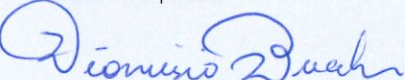
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Upper cover	SPK058	V00	15/01/2014
Bottom cove	SPK065	V00	15/01/2014
N meplate	WISDOM LAMP 3C-MP001	V00	16/12/2013
Button	STK006	V00	15/01/2014
Pressure ring	SPK023	V00	15/01/2014
Plastic hook	SPK084	V00	15/01/2014
Stainless steel	WWT035	V00	15/01/2014
Short studs	WWC006	V00	15/01/2014
Long studs	WWC008	V00	15/01/2014
Screw	WLL029	V00	15/01/2014
Screw	WLL008	V00	15/01/2014
Screw	WLL030	V00	15/01/2014
Battery components	DBK009-ASM	V00	15/01/2014
Pouring sealant assembly, One battery	WISDOM LAMP 3C-JF	V00	15/01/2014
Pouring sealant assembly, wo battery	WISDOM LAMP 3A-JF	V00	15/01/2014
Schematic circuit diagram	NW-SCH-SCH001-EX	V1.00	27/01/2015
Reflector (for LAMP 3A/B/C/D)	SPK082	A0	03/07/2017
Reflector (for LAMP 3 Plus)	SPK133	A0	03/09/2018


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[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

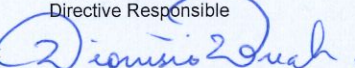
[21] **History**

Issue	Description	Issue date
0	First emission	2018-06-29
1	Add an type WISDOM LAMP 3Plus; Updated battery models allowed for use	2019-12-20


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End of Certificate

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