

# (1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - Directive 2014/34/EU
- (3) EU-Type Examination Certificate Number

**TÜV 21 ATEX 8775 X**

Issue: 00

- (4) Equipment: **Explosion Proof Lighting/KTank Series**
- (5) Manufacturer: **SHENZHEN KHJ SEMICONDUCTOR LIGHTING CO., LTD**
- (6) Address: **4-5 Floor Building 1, Chuang xin Industrial Park, Xintian Community Guanlan, Longhua new district, Shenzhen, China**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8775.00/21

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN IEC 60079-0:2018**

**EN 60079-1:2014**

**EN 60079-31:2014**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex db IIC T\* Gb

II 2 D Ex tb IIIC T\* Db IP66  
(Maximum Ta range: -40°C to +60°C)



TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2022-12-12

This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114



(13) Annex

(14) **EU Type Examination Certificate**  
**TÜV21 ATEX8775 X** Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Explosion Proof Lighting  
 KTank Series

15.2 Description / Details of Change

General product information

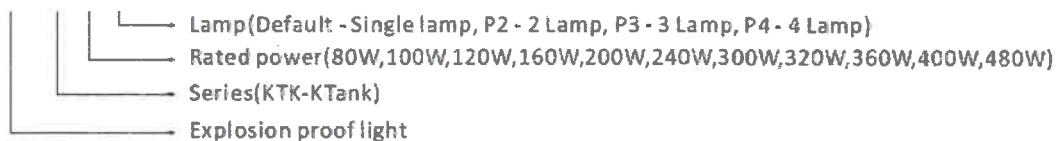
KTank Series LED Lamp uses the basic unit, which could be 80W; 100W; 120W with different input to form 4 setups with 1-4 basic units.

There are driver house and light source house isolated by the component with flameproof path and filling compound on the basic unit. The connections among different units is also isolated by another component with flameproof path and filling compound.

KTank Series LED Lamp could be used in Group IIC Zone 1 and Group IIIC Zone 21 with protection type "db" (flameproof) and "tb" (dust tight).

Type code:

Ex - KTK X -X



There are four optional type of thread: M20\*1.5, M25\*1.5, NPT1/2, NPT3/4"

Technical Data

Electrical data:

Setup	Rated Voltage	Rated Power
Basic Unit	20-30V (AC/DC)/100-277V (AC)/347-480V (AC)	80W/100W/120W
2 Units	20-30V (AC/DC)/100-277V (AC)/347-480V (AC)	160W/200W/240W
3 Units	100-277V (AC)/347-480V (AC)	240W/300W/360W
4 Units	100-277V (AC)/347-480V (AC)	320W/400W/480W
2 Units with Battery	100-277V (AC)	160W/200W/240W

This EU Type Examination Certificate without signature and official stamp shall not be valid.  
 This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:  
 Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

## Environmental data

Models	Ta	T class (Gas)	Dust (°C)
Basic Unit	-40-55°C	T5	85
	-40-60°C	T5	90
2 Units Setup	-40-55°C	T5	95
	-40-60°C	T4	100
3 Units Setup	-40-55°C	T4	100
	-40-60°C	T4	105
4 Units Setup	-40-55°C	T5	95
	-40-60°C	T4	100
2 Units Setup with Battery	-20-43°C	T6	80

(16) Test-Report No. GC/Ex8775.00/21

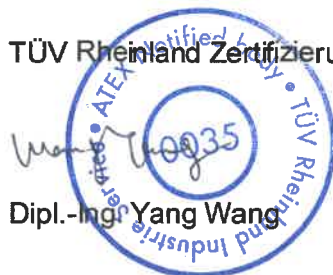
(17) Special Conditions for safe use

1. The end user shall use more than a 4mm<sup>2</sup> wire for external earthing purpose.
2. End user shall use certified cable glands with suitable type of protection for installation purpose.
3. Minimum IP66 for chosen cable glands.
4. Clearances and creepage distances should be considered when installing the power cables.
5. The specification and installation of power cables must be in accordance with user manual. The power cable shall be fixed as close as possible to the enclosure of the lamp after installation.
6. Use only replaceable battery pack of HRH26/51(C) 4000TX8 9.6V.
7. Clean the luminaire regularly to prevent dust accumulation.
8. All maintaining and repairing must be carried out by the qualified staff by the manufacturer.
9. POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(18) Basic Safety and Health Requirements  
 Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2022-12-12



This EU Type Examination Certificate without signature and official stamp shall not be valid.  
 This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:  
 Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH