



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

Certificate No.:	IECEx CSAE 24.0067X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-12-19		
Applicant:	AGC Lighting Co., Ltd. Building A, Jian'an Road No.3 Fuyong, Bao'an District Shenzhen, 518103 Guangdong China		
Equipment:	HA10 series LED Luminaires for Hazardous Locations		
Optional accessory:			
Type of Protection:	type n 'nR', dust enclosure 'tb'		
Marking:	Ex nR IIC T6/T5 Gc Ex tb IIIC T80°C/T95°C Db IP66 For ambient range see product description.		

Approved for issue on behalf of the IECEx
Certification Body:

Michelle Halliwell

Position:

Director Operations, UK & Industrial Europe

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **AGC Lighting Co., Ltd.**
Building A, Jian'an Road No.3
Fuyong, Bao'an District
Shenzhen, 518103 Guangdong
China

Manufacturing
locations: **AGC Lighting Co., Ltd.**
Building A, Jian'an Road No.3
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AGC Lighting Co., Ltd.
Building B 101,103, 2-3 floors, Jian'an
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518103 Guangdong
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AGC Lighting Co., Ltd.
Building C 1-4 floors, Jian'an Road
No.3
Fuyong, Bao'an District, Shenzhen
518103 Guangdong
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 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 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 Report:

GB/CSAE/ExTR24.0060/00

Quality Assessment Report:

DE/TUR/QAR21.0017/03



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

HA10 series LED Luminaires for Hazardous Locations are explosion-protected luminaires for use in hazardous areas. It is available for ceiling, pendant, wall bracket, 25°, 30° or 90° stanchion or trunnion mounting.

The enclosure of luminaires comprises a power housing and a LED housing manufactured from aluminum alloy held together by three M6×20 stainless steel hexagon socket head cap screws. The power housing comprises a power box and a mount cover held together by three M6×30 stainless steel hexagon head bolts, the wall mount and stanchion mount are secured to the mount cover using two M8×30 stainless steel Hexagon socket head cap screws. A wall mount pressure plate is secured to the wall mount using four M4×8 stainless steel cross recessed pan head screws. The LED housing comprises a heat sink enclosure, where a toughened glass window (curved grille or flat clear) is secured within by six M5×12 stainless steel hexagon socket head cap screws with pressing plate. An additional guard may be provided to protect the glass window. The power housing can provide up to four cable entry holes for suitably approved cable entry devices or blanking elements with suitable IP code. Silicone rubber gaskets are provided on the enclosure to provide ingress protection.

The power housing is used to house the terminals for external connection, LED driver, optional fuse and optional surge protection device. The Li-ion battery pack, adjustable power module and emergency module are optional parts which are installed inside the emergency and adjustable power luminaire and the battery pack can be charged by the internal luminaire power supply in explosive atmosphere. The specification of battery pack is 6.4V/4.3Ah. The LED housing is used to house the LED module and LED lens inside.

The luminaire has been tested in accordance with the test of enclosure section of IEC 60079-0:2017 and meets the requirements of IP66. The luminaire contains LEDs on the LED module that are considered as non-array divergent LEDs and these LEDs are to be excluded based on Clause 1 of IEC 60079-28:2015.

Rating:

18 – 48Vdc; 190Vdc – 315Vdc; 120Vac – 277Vac with 50/60 Hz. 120Vac – 277Vac with 50/60 Hz for Emergency and adjustable power type.

See annexe for more information

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The HA10 series LED luminaires for Hazardous Locations shall be mounted only in accordance with manufacturer's instructions.
2. The aluminium alloy enclosures with a non-metallic coating featuring a non-conducting powder coat may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.
3. All cable entry holes shall be fitted of either suitably approved cable glands or suitably approved stopping plugs that is suitable for the application.
4. As part of the re-lamping procedure the gaskets are to be checked and replaced if found to be degraded. Contact the manufacturer for information on the gaskets.
5. Clean the luminaire regularly to prevent dust accumulation.
6. The luminaire with curved grille glass (model designation includes 'GG') shall only be used in locations where there is a low risk of mechanical impact.
7. Under rated conditions, the cable entry point could reach a temperature exceeding 70°C and the branching point could reach a temperature of 80°C; this shall be considered when installing only cable glands and cables that have temperature rating 90°C shall be used.
8. The test switch on the enclosure shall not be operated in the hazardous area.



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Equipment (continued):

Conditions of Manufacture

1. The luminaires supplied with rated input voltage 120Vac - 277Vac shall be subjected to a dielectric strength test at 1554 Vac at least 60 s without dielectric breakdown occurring between input terminal of luminaire and enclosure according to IEC 60079-15:2017, Clause 12.1. Alternatively, the test shall be carried out at 1865 Vac for at least 100 ms. The optional surge protection device in the equipment shall be removed when do routine testing.
2. The luminaires supplied with rated input voltage 190Vdc - 315Vdc shall be subjected to a dielectric strength test at 1630 Vac at least 60 s without dielectric breakdown occurring between input terminal of luminaire and enclosure according to IEC 60079-15:2017, Clause 12.1. Alternatively, the test shall be carried out at 1956 Vac for at least 100 ms. The optional surge protection device in the equipment shall be removed when do routine testing.
3. The luminaires supplied with rated input voltage 18Vdc - 48Vdc shall be subjected to a dielectric strength test at 500 Vac at least 60 s without dielectric breakdown occurring between input terminal of luminaire and enclosure according to IEC 60079-15:2017, Clause 12.1. Alternatively, the test shall be carried out at 600 Vac for at least 100 ms. The optional surge protection device in the equipment shall be removed when do routine testing.
4. Under constant temperature conditions, the luminaires shall be subjected to a restricted breathing test by checking that the time interval required for an internal pressure of 0.3 kPa +10/-0 % below atmospheric to change to half the initial value is greater than 180 s according to IEC 60079-15:2017 clause 12.2.2.1.2. Alternatively, the time interval required for an internal pressure of 3.0 kPa +10/-0 % below atmospheric to change to 2.7 KPa is greater than 27 s or an internal pressure of 0.3 kPa +10/-0 % to change to 0.27 KPa is greater than 27 s.

Annex:

[IECEx CSAE 24.0067X Issue 0 Annexe_1.pdf](#)

Annexe to: IECEx CSAE 24.0067X Issue 0

Applicant: AGC Lighting Co., Ltd.



Apparatus: HA10 series LED Luminaires for Hazardous Locations

EQUIPMENT (continued)

The following table details the luminaires and their associated ratings, ambient temperature ranges, temperature class for gas and maximum surface temperature for dust.

Model No.	Rated Power	Ambient temperature	Temperature class	Maximum surface temperature
HA10-030 series HA10-040 series HA10-050 series	30W 40W 50W	-40°C to +65°C	T5	T95°C
HA06-060 series HA10-075 series	60W 75W	-40°C to +60°C	T5	T95°C
HA10-050 adjustable power series	20W/35W/50W	-40°C to +65°C	T5	T95°C
HA10-075 adjustable power series	30W/53W	-40°C to +65°C	T5	T95°C
	75W	-40°C to +60°C		
HA10-030 Emergency series HA10-040 Emergency series HA10-050 Emergency series	30W 40W 50W	0°C to +50°C	T6	T80°C
HA10-060 Emergency series HA10-075 Emergency series	60W 75W	0°C to +50°C	T5	T95°C
HA10-050 Emergency and adjustable power series	20W/35W/50W	0°C to +50°C	T6	T80°C
HA10-075 Emergency and adjustable power series	30W/53W	0°C to +50°C	T6	T80°C
	75W		T5	T95°C

Model Designation of HA10 series is as follows:

