EXPLOSION-PROOF & HAZARDOUS LOCATION LIGHT

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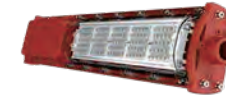# HL101 Explosion-proof & Hazardous Location LED Lights

- High explosion-proof level, meeting the requirements for use in explosion-proof gas zone 1 and dust zone 21;
- Multiple optical angles options suit for different scenarios, provide uniform illumination and soft lighting;
- Robust explosion-proof glass (≥ 12mm thickness) resists to drastic heat changes, exceed the impact strength requirements of the national standard by more than twice;
- Strong seismic resistance. Pass 3G vibration testing. The lighting components are not easily detached, ensuring safety and reliability;
- Strong wind resistance. Tested by a level 17 typhoon, the mechanical structure of the lighting fixtures is firmly connected, not easily bent or deformed, and the installation is safe and reliable;
- Redundant explosion-proof structure design, which exceeds the national standard of explosion-proof distance by 1.3 to 1.6 times;
- Explosion-proof linkable installation mode is available, Saving installation costs;
- High power factor increases the grid utilization. Dual stage PFC circuit and flicker-free design;
- Built-in radar sensor for efficient and energy-saving lighting.

Certifications

CE RoHS Ex IECEx ⊙ CNEX 5 YEAR WARRANTY

Certain environments require a higher level of safety. Sites may be marked as hazardous locations in the event of a fire or explosion conditions exist because of the presence of flammable gases or vapors, flammable liquids, flammable dusts, or are prone to flammable fibers.

HL101 is the perfect solution to these hazardous applications. As a Class I Division 1 luminaire, it protects against possible power surges and sparks by securing all wiring within. It can be pole or yoke mounted, using a 360-degree rotating bracket increases the flexibility of product installation. It is also corrosion resistant with tempered glass for added durability.

Specifications:

Model No.	HL101-50W	HL101-100W	HL101-150W	HL101-200W
Dimensions(mm)(l,w,h)	330x265x190		385x317x190	
Power	50W	100W	150W	200W
Voltage	AC100-277V / 277-480V			
CCT	3000K; 4000K; 5000K; 5700K			
Luminous Efficiency	140±10lm/W			
Luminous Flux 140lm/W	7000±500lm	14000±1000lm	21000±1500lm	28000±2000lm
CRI	Ra>70			
Beam Angle	30° / 60° / 90°			
IP Grade Protection	IP66			

Explosion protection		Conformity to standards
PCEC	Ex db eb mb IIC T6 Gb (20W-100W)	GB3836.1, GB3836.2, GB3836.3, GB3836.9, GB3836.31
	Ex tb IIIC T80°C Db (20W-100W)	
	Ex db eb mb IIC T5 / T4 Gb (110W-200W)	
	Ex tb IIIC T95°C / T130°C Db (110W-200W)	
ATEx	Ⓔ II 2 G Ex db eb mb IIC T6 Gb (20W-100W)	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-18, EN 60079-31
	Ⓔ II 2 D Ex tb IIIC T80°C Db (20W-100W)	
	Ⓔ II 2 G Ex db eb mb IIC T5 / T4 Gb (110W-200W)	
	Ⓔ II 2 D Ex tb IIIC T95°C / T130°C Db (110W-200W)	
IECEx	Ex db eb mb IIC T6 Gb (20W-100W)	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31
	Ex tb IIIC T80°C Db (20W-100W)	
	Ex db eb mb IIC T5 / T4 Gb (110W-200W)	
	Ex tb IIIC T95°C / T130°C Db (110W-200W)	

Applications:

Multifunction button

HL201 Portable Luminaire
ATEX ZONE 0 rated rechargeable lantern/scene light

- High explosion-proof design, adopting intrinsic safety "ia" circuit design, can be used in hazardous environmental areas such as gas zone 0 and dust zone 20 with the highest explosion-proof level;
- Handheld and strap-on carrying methods meet different usage requirements;
- High capacity battery package ensure ultra long battery lifetime. (High brightness ≥ 10h battery life; Low light brightness ≥ 100 hours of endurance);
- One button adjustment of the spotlight or floodlight illumination mode to meet the needs of projection and illumination range;
- Visual power display function which can monitor power at any time;
- Sound and light warning design. Combined with red flashing warning light and alarm buzzer, our products can reduce safety hazards for operators;
- Aluminum alloy lamp holder can rotate up and down 90 ° to meet the different angles lighting needs;
- The shell is made of high-strength alloy aluminum and explosion-proof special plastic. With light weight but high strength, it can be dropped from any angle at a height of 1 meter in a low temperature of -20 ℃ without damage;
- IP66 industrial dust-proof and waterproof grade, meeting the requirements for outdoor use in rainy days.

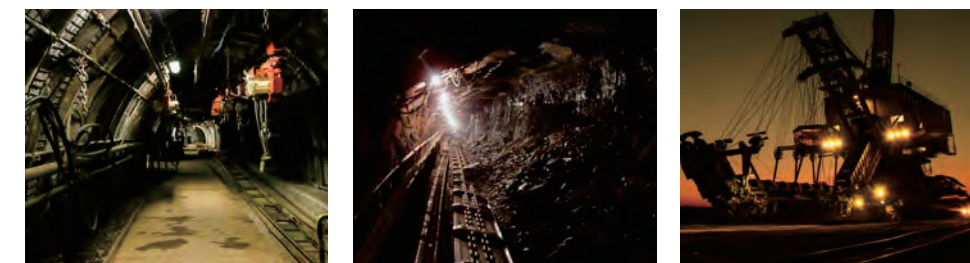## Certifications

CE RoHS Ex IECEx CNEX 5 YEAR WARRANTY

The HL201 is developed for use in hazardous locations, a portable scene light platform provides sufficient illumiation and cordless operation to eliminate trip hazards.
Lightweight and rechargeable HL201 is ATEX rated for Zone 0 location.
Flexible switching design with high, medium and low illumiation with optional small spot light beam and wide flood beam.
High-impact ABS thermoplastic housing and waterproof construction allows the use of this lamp even under harsh working condtions.

Model No.	HL201-10W		
Dimensions(mm)(l,w,h)	267×100×132		
Power	10W		
Input voltage (adapter)	AC100-240V 50/60Hz		
Working Modes	High mode(10m)	Medium mode	Low mode
Luminous Flux	≥ 1000lm	≥ 240lm	≥ 70lm
Run Time	≥ 10 hrs	≥ 24 hrs	≥ 80 hrs
Carrying method	Handheld / Shoulder strap		
Battery Type	Intrinsically safe rechargeable explosion-proof ternary lithium battery		
Charging Time	≤ 11hrs (fully charged)		
Warning Function	Caution light+Buzzer alarm		
CCT	3000K / 5700K		
CRI	Ra > 70		
Light Beam	Spot light (20°) / Flood light (40°)		
IP Grade Protection	IP66		

Technical data:

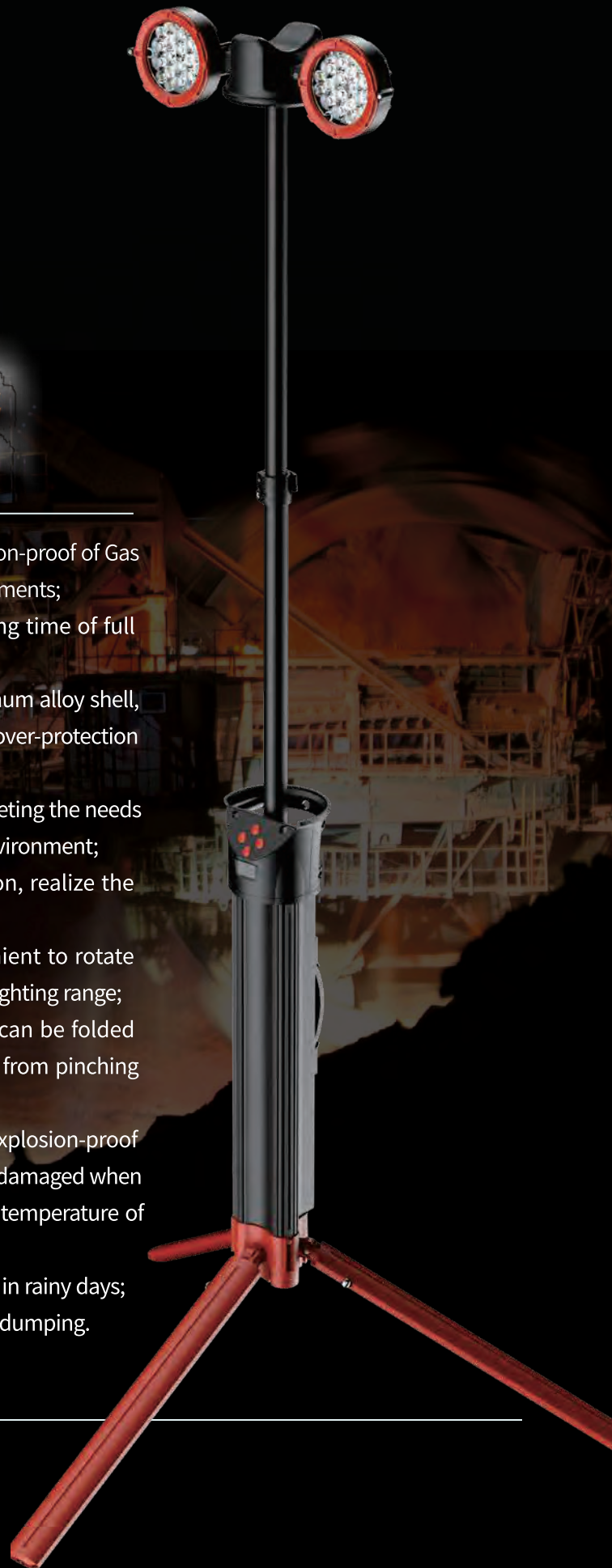| Explosion protection		Conformity to standards
PCEC	Ex ia IIC T4 Ga	GB3836.1, GB3836.4
	Ex ia IIIC T200120°C Da	
ATEx	II 2 G Ex ia IIC T4 Ga	EN IEC 60079-0, EN 60079-11
	II 2 D Ex ia IIIC T200120°C Da	
IECEx	Ex ia IIC T4 Ga	IEC 60079-0, IEC 60079-11
	Ex ia IIIC T200120°C Da	

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HL606 LED Portable & Explosion-proof Light

- High explosion-proof rating protection, meeting the explosion-proof of Gas Zone 1 and Dust Zone 21 hazardous location's use requirements;
- High-capacity battery, super long battery life, the running time of full brightness ≥ 10h, and minimum brightness ≥ 100h;
- Triple protection battery pack design, high-strength aluminum alloy shell, battery pack sealed with insulating glue, multi-functional over-protection battery control board, to ensure the battery safety;
- Easy to swith the Spotlight mode and Floodlight mode, meeting the needs of different projection and irradiation ranges in the field environment;
- Explosion-proof memory type stepless dimming function, realize the same brightness as before turning off the light;
- Two-head lamp design design, each lamp head convenient to rotate 90° vertically and330° horizontally, to achieve customized lighting range;
- High-strength aluminum alloy lifting bracket, the lamp can be folded up, and the resistance lifting design prevents the bracket from pinching hands;
- The shell is made of high-strength alloy aluminum and explosion-proof special plastic, lightweight, high strength, and it will not be damaged when dropped at any angle from a height of 1 meter and a low temperature of -20° C;
- IP66 proctection, meeting the requirements of outdoor use in rainy days;
- Foldable bracket support, can resist Strong Breeze without dumping.

Certifications

CE RoHS Ex IECEx CNEX 5 YEAR WARRANTY

HL606 is a retractable and portable, lightweight explosion-proof light with long service life time. Small and wide beam angle lens provide different light illumination. Users could check the battery status, dimming, light mode, beam angle by the OLED multi-function screen.This functional and easy-carrying explosion-proof light is ideal for emgency outdoor working in hazardous environments, such as oil and gas refifineries, petrochemical facilities, oil fifield, and daily small construction and maintenance, hazardous locations, emergency rescue temporary projects, etc.

Specifications:

Model No.	HL606-50W	
Dimensions(mm)(l,w,h)	Folded size: 854×149×140	Unfolded size: 877×2005
Power	50W	
Charge Voltage	AC100-277V / 50-60Hz	
Working Modes	Stepless dimming	
LUMINOUS FLUX	≥ 6000	
Battery Type	Rechargeable sealed lithuim-ion battery	
Run Time	≥ 8hrs	
Charging Time	≤ 6hrs（Full charge)	
Light Beam	Spotlight mode（20°）/ Floodlight mode（50°)	
Functions	Lamp cap rotation function, folding and lifting functions, power display	
CCT	3000K; 4000K; 5000K; 6000K	
CRI	Ra > 70	
IP Grade Protection	IP66	
Carrying Mode	Hand hold and carry by shoulder	

Folded size:
854×149×140mm

Unfolded size:
877×2005mm

Technical data:

Explosion protection		Conformity to standards
PCEC	Ex db eb ib mb IIC T4 Gb	GB3836.1, GB3836.2, GB3836.3, GB3836.4, GB3836.9, GB3836.31
	Ex tb IIIC T80°C Db	
ATEx	II 2 G Ex db eb ib mb IIC T4 Gb	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-11, EN 60079-18, EN 60079-31
	II 2 D Ex tb IIIC T80°C Db	
IECEx	Ex db eb ib mb IIC T4 Gb	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-11, IEC 60079-18, IEC 60079-31
	Ex tb IIIC T80°C Db	

Applications:

The HL180 is a reliable and safe LED explosion-proof luminaire, designed for lighting application in harsh and hazardous areas with oil &chemical gas, dust. It is good lighting solution for tank fields and corridors. The high grade of explosion-proof and anti-corrosion rate, suitable for offshores platforms.Intelligent dimming, sensor control and emergency battery back-up saves energy and extend service life.
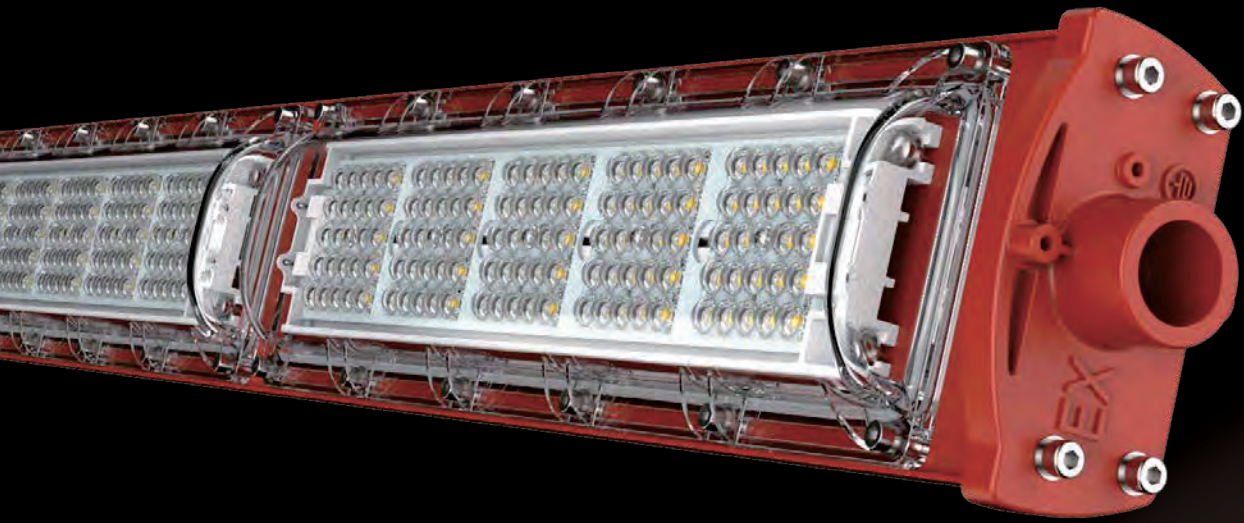
HL180 LED Explosion-proof & Hazardous Location Light

- High explosion-proof grade, meeting the use requirements of zone 1 and zone 21 hazardous locations;
- Hemispherical optical design of the milky cover,uniform illumination, soft light, to meet the explosion-proof light aging design requirements;
- High explosion-proof glass, thickness ≥ 10mm, heat-resistant drastic changes, impact strength requirements exceeding the national standard 2 times more;
- 3G Anti-seismic rating, the lamp parts are not easy to fall off, safe and reliable;
- Strong wind resistance, passed the 17-level typhoon wind test, the mechanical structure of the lamp is firmly connected, not easy to bend and deform, and the installation is safe and reliable;
- Redundant design of explosion-proof structure, the design exceeds the national standard by 1.3 to 1.6 times the explosion-proof distance, explosion-proof safer;
- Outdoor stainless steel bracket,the housing is sprayed with AKZO anti-salt powder, strong corrosion resistance;
- High power factor, high grid utilization, double-stage PFC circuit, flicker free;
- Built-in radar sensor, energy-saving lighting;
- Hanging mounting bracket with gear adjustment disc,stable and firm limit, to have 180 ° rotation fixed.

Certifications

Specifications:

Model No.	HL180-30W	HL180-50W	HL180-Emergency Power 5W
Dimensions(mm)	φ182×251	φ182×251	φ182×256
Power	30W	50W	Emergency Power 5W
Voltage	AC100-277V / 50-60Hz		
CCT	3000K; 4000K; 5000K; 6000K		
Luminous Efficiency	150 lm/W with glass cover; 130 lm/W with PC cover		
Luminous Flux 150lm/W	4500 lm	7500 lm	\
CRI	Ra > 80		
Beam Angle	Glass 110° ; PC 160°		
IP Grade Protection	IP66		

Technical data:

Explosion protection		Conformity to standards
PCEC	Ex db eb mb IIC T5 Gb	GB3836.1, GB3836.2, GB3836.3, GB3836.9, GB3836.31
	Ex tb IIIC T95°C Db	
ATEx	Ⓔ II 2 G Ex db eb mb IIC T5 Gb	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-18, EN 60079-31
	Ⓔ II 2 D Ex tb IIIC T95°C Db	
IECEx	Ex db eb mb IIC T5 Gb	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31
	Ex tb IIIC T95°C Db	

Applications:

The HL160 is a linear LED explosion-proof luminaire, designed for application lighting in harsh and hazardous areas, such as oil storage tank areas, petrochemical installation platforms, and hazardous chemicals areas, which are certified with international strict testing standards of IECEx, ATEX, and CNEX. Optional DALI and sensor control design reduce energy, maintenance, and manpower costs. Integrated emergency battery backup design supports necessary efficient lighting with 5W and working time over 90mins. Versatile and flexible mounting options provide an ideal solution for high vibration, impact, and hose-down in drilling applications.

HL160 LED Explosion-proof & Hazardous Location Light

- High explosion-proof grade, meeting the use requirements of zone 1 and zone 21 hazardous locations;
- Milky cover with optical lens design,uniform illumination, soft light, to meet the explosion-proof light aging design requirements;
- 3G Anti-seismic rating, the lamp parts are not easy to fall off, safe and reliable;
- Strong wind resistance, passed the 17-level typhoon wind test, the mechanical structure of the lamp is firmly connected, not easy to bend and deform, and the installation is safe and reliable;
- Outdoor stainless steel bracket,the housing is sprayed with AKZO anti-salt powder, strong corrosion resistance;
- High power factor, high grid utilization, double-stage PFC circuit, flicker free;
- Built-in radar sensor, energy-saving lighting;
- Multi-style mounting brackets, wall-mounted adjustable angle installation, hoop-type round pole installation, ceiling-type flat installation.

HL160-30W

HL160-60W

Certifications

Specifications:

Model No.	HL160-30W	HL160-60W	HL160-80W
Dimensions(mm)(l,w,h)	726x116x82	1205x116x82	1205x116x82
Power	30W	60W	80W
Voltage	AC100-277V / 50-60Hz		
CCT	3000K; 4000K; 5000K; 6000K		
Luminous Efficiency	160 lm/W with PC clear cover; 130 lm/W with PC milky cover		
Luminous Flux Standard	4200lm	8200lm	10700lm
CRI	Ra>70		
Beam Angle	30° / 60° / 90° (PC milky cover is only 90° available)		
IP Grade Protection	IP66		

Technical data:

Explosion protection		Conformity to standards
PCEC	Ex eb mb IIC T4 Gb	GB3836.1, GB3836.3, GB3836.9, GB3836.31
	Ex tb IIIC T95°C Db	
ATEx	II 2 G Ex eb mb IIC T4 Gb	EN IEC 60079-0, EN 60079-7, EN 60079-18, EN 60079-31
	II 2 D Ex tb IIIC T95°C Db	
IECEx	Ex eb mb IIC T4 Gb	IEC 60079-0, IEC 60079-7, IEC 60079-18, IEC 60079-31
	Ex tb IIIC T95°C Db	

Applications: