



ALINA LIGHTING SOLUTIONS

# HAZARDOUS LOCATIONS LED LIGHTS CATALOG





## WE ARE DIFFERENT

Alina Lighting Solutions is committed to delivering high-quality industrial lighting fixtures designed, tested and certified for use in hazardous locations and adverse environment conditions.

You can rely on Alina Lighting to safely provide light where you need it — even under the harshest indoor and outdoor conditions. If safety, labor reduction, quality and reliability are your priorities, consider Alina lighting products.



### Collaboration

Collaboration with all stakeholders to stay in touch with market gaps, industry feedbacks and global trends.



### Innovation

Consistent, continuous and sustainable innovation.



### Honesty

Absolute dedication towards honesty, transparency and integrity.





## RIGHT PRODUCT. UNBEATABLE VALUE. MAXIMUM INNOVATION.

Every single product under our umbrella is brought to you after years of research, fine tuning, value engineering, impeccable series of performance testing and a plethora of qualifications and certifications.



**Faster payback**  
Exceptional efficacy through innovation.



**Long life**  
Commitment of quality, durability and reliability.



**Highly value engineered**  
Great value with uncompromising performance.



**Certified for quality**  
Products with major quality certifications that are eligible for rebates.



**Industry leading warranty**  
5, 7 and 10 year warranty with options to  
Extend to 20 years.





## EXCEPTIONAL ARMOR FOR EXTREME ENVIRONMENTS

**Explosion Proof Lighting** is an intrinsic part of any business that operates in classified and hazardous environments. These harsh and hazardous environments potentially contain explosive gases and vapors which increase the risks from explosions which may occur if proper precautions aren't in place. Explosion Proof lights also called Hazard Location lighting, is designed for use in areas where explosive and flammable gases such as hydrogen, methane, propane, and other hydrocarbons are present. Working in confined spaces or areas exposed to such environments can be very dangerous and hence this kind of lighting is imperative for such locations for the safety of workers and businesses.

ALINA's Hazardous Location Lights are designed with a safe housing material, usually, copper-free aluminum, to isolate potential spark triggers. They also come with extremely durable lenses that can withstand harsh working conditions and prevent cracks from developing. With its high-efficiency and low operating costs, they are one of a kind fixtures that make businesses not just safe from accidents but safe from unnecessary expenses on maintenance and energy costs.



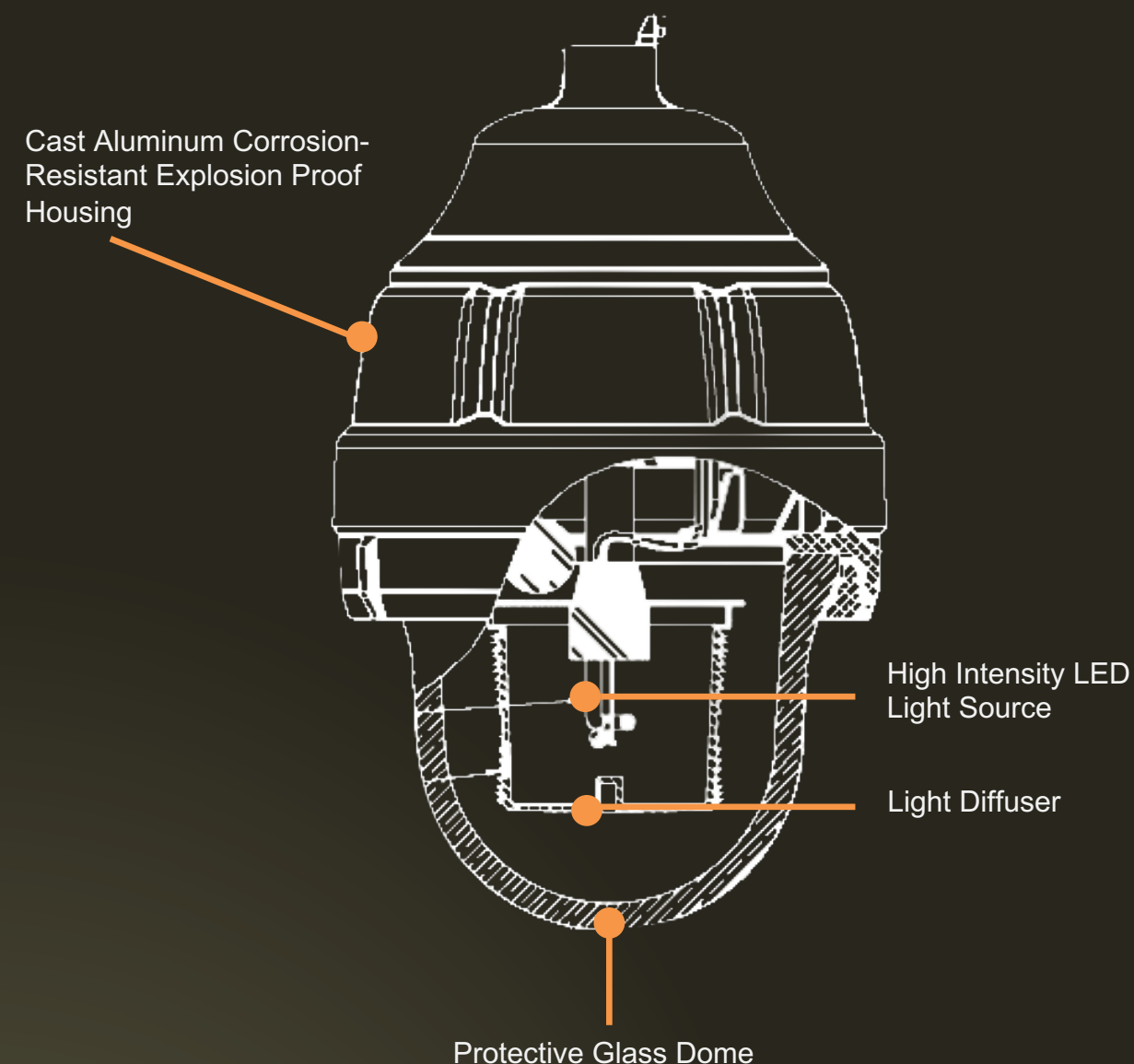


## BUILT TO ENDURE

Standard lighting falls short of overcoming the unique challenges in confined spaces like tanks, vents, pipes, sewers, tank cars and manholes. These luminaires run the risk of causing explosions by igniting combustible gas and vapor particles that can start an explosive chain reaction or fire. Particularly oil and gas and petrochemical industries are prone to such accidents when using regular duty lighting as its switches and relays can easily spark during its operation. It is in environments like these, Explosion Proof lights come to the rescue. These lights are designed with a safe housing material, copper-free aluminum with powdered epoxy finishes, to isolate potential spark triggers.

They also come with extremely durable lenses, protective components of tempered glass and corrosion-resistant stainless steel with heat sink technology to dissipate thermal build-up and withstand harsh working conditions. This prevents them from developing cracks even in the most intense environments. To sum it up, Explosion Proof LED Lights are one of a kind fixtures that adds a significant level of safety and savings to businesses in their lighting applications.

A typical section of an Explosion Proof Jelly Jar Light





## WHY ARE WE UNIQUE?

### 1. Explosion Proof Design

Standard light fixtures are usually composed of a design that exposes the bulb, contacts, wiring, and switches to the atmosphere. Hence, spark from a loose contact or movement of the switch or even the heat from the bulb is enough to ignite a flammable environment. But, in the case of Explosion Proof lights, the components are encased to prevent potential sparks or flames from escaping the internal housing.

### 2. Durable and Tough

Given the rugged build of the Explosion Proof light fixtures with sturdier materials, they offer a high degree of durability in comparison to standard light fixtures, as they can withstand harsher working environments. This makes them a better option for operators as it will not be as easily damaged like standard light fixtures and would reduce maintenance and refurbishing costs.

### 3. Allows Greater Mobility

Explosion Proof LED lights are built with a strong frame and thicker tempered glass lenses, making them highly resistant to vibrations. This durable design allows the transportation of these lights from one place to another by forklifts or other machines without the risk of damage or malfunction, thus making them more portable. This feature makes it an ideal choice for operators who require mobile illumination.

### 4. High Efficiency

Explosion Proof LED lights are extremely energy efficient. They use more than 90% of the energy to produce light and have near-zero heat or conversion loss to account for, which means that they use a lot less power to function. Organizations save on-site energy from portable generators and other in-situ sources, providing more sustainable and profitable operations. In other words, you'll save money running Explosion Proof LEDs for the same or better light output your current Explosion Proof lamps give you.

### 5. Flexible Options

Modern Explosion Proof LED lights are offered in modular designs and multiple mounting options to allow multitudes of options in their application. They allow light outputs to be easily increased or lowered to match required light levels or adapt to existing access points, all while saving energy and money.





## THE LED ADVANTAGE

Explosion Proof LED Lights have become a strong competitor to traditional fluorescent and HID counterparts, with their high efficiency and low operating costs. Companies in the oil and gas industry and the petrochemical industry are most likely to choose LED-based solutions because they offer higher quality and greater safety, moreover they are also very cost-effective to maintain.

Explosion Proof LED lighting might be the only choice in the future as mercury-vapor lighting is being banned by governments worldwide.

The latest trend in the oil and gas industry shows a huge demand for LED Explosion Proof high bays, low bays and floodlights. This trend is primarily being seen in the cold weather climates of the Canadian Oil Sands projects and the Oil fields of Wyoming and Utah areas. These lights work really well in -15° Celsius temperature and are much more responsive than the fluorescents or metal halides counterparts.





## APPLICATIONS

### Oil and Gas industry

- All petroleum production and refining
- Petroleum loading and transportation
- Petroleum storage and retail
- LNG industry
- All mining operations and service Chemical industry
- All types of paint facilities
- Chemical production and storage

### Ocean, marine and aerospace field

- Ocean platform operation facilities and structure
- Aerospace clean room and production
- Ocean vessel operations

### Metal treatment

- Steel and aluminum factories
- Pumping stations in any environment
- Metal smelting, foundry and fabrication

### Food and alcohol industry

- Flour and fine particle production and storage
- Food and distilling production
- Alcohol industry

Other high humidity, high dust, high temperature, vapor locations





## EXPLOSION PROTECTION

Marking Atex

II 3 G Ex ec IIC T3C Gc

II 2 D Ex op is tb IIIC T160°C Db EX IIC EX mb eb IIC T3C Gb

II2 EX op is tb IIC T3C Db

Marking IECEX Ex ec IIB T3C Gc

Ex op is tb IIIC T160°C Db EX mb eb IIC T3C Gb

EX op is tb IIC T3C Db

Marking UL844 (North American)

Class I, Division 2, Groups A, B, C, D Class II, Division 1, Groups E, F, G Class II, Division 2, Groups F, G Class III

Marine Marking UL 1598, UL1598A ABS

Other Rating IP 66

### MATERIALS

Housing: Aluminum

Lens: Tempered glass

Hardware: stainless steel

Mounting Bracket: stainless steel





## ALINA HAZARDOUS LOCATION SERIES

- Provides a complete range of certified explosion proof lighting including.
- Fixed and portable work lights, flood light, area light, emergency lights, warning lights, surface, pole and wall mounts, linear lighting and accessories.
- Draws from years of research and design, a technical knowledge base, advanced in-house testing facility, high-capacity manufacturing and quality assurance systems to service the largest industrial customers around the globe.
- Suitable for all kinds of Hazardous Locations including but not limited to petrochemical industry, chemical industry, painting industry, wine industry, food industry, mining locations, and marine locations.
- Top safety, high quality and long lifespan.
- Full line certification to requirements of UL 1598/UL 1598A/UL844/IECEX/ATEX/ABS/DNV/API Spec 01.
- Suitable for petrochemical, marine, oil and gas, airspace, food, metal industry and other harsh environments.





## INDEX

- 12. Flood Square High Bays. A Series.
- 13. Heavy Duty Flood High Bays. B Series.
- 14. UFO Round High Bays. C Series.
- 15. UFO Round High Bays. D Series.
- 16. Flood Series. Flood Lights.
- 17. Jelly Jar. G Series.
- 18. Linear High Bays. H Series.
- 19. Linear High Bays. I Series.
- 20. Exit Signs. J Series.
- 21. Area Lights. STA Series.
- 22. Vapor Tights. R Series.



# FLOOD SQUARE HIGH BAYS

## A SERIES

Wide and narrow optics for uniform illumination. Copper free aluminum body and corrosion resistant frame. Up to 50,000 hours LED service life. Valid over the entire temperature range from -40°C to 50°C (-40 ° F to 122° F).



Model:	EX-20W A2YZDA	EX-40W A2YZDA	EX-60W A2YZDA	EX-BOW AYZDA	EX-100W AYZDA	EX-150W A3YZDA	EX-200W A3YZDA	EX-250W A4YZDA	EX-300W A4YZDA	EX-400W A4YZDA
Rated Wattage(W):	20	40	60	80	100	150	200	250	300	400
Rated Lumen(Lm):	2,800	5,600	8,400	11,200	14,000	21,000	28,000	35,000	42,000	56,000
Dimension(Inch):	9.84x6.5	4x6.3		12.6x9.4	5x6.3	14.96x9.0	6x7.41	16.5x11.8x8.27		
Voltage Option: CCT:	AC100-277V/DC12-48V/AC200-480V 2,200-									
Beam Angle(Deg):	7,000K 40/60/90/120									
CRI:	>70									
Control Option:	0-10V DC									
Protection Class:	IP66									
Mounting:	Ceiling Mounting, Wall Mounting, Pole Mounting, Arm Mounting, Stanchion Mounting, Wall Mounting to Junction Box									
Compliance:	ETL/UL1598/UL 1598A/UL844/IECEX/ATEX/ABS/CB/API Spec Q1/CSA									
Rating:	Class I ,Division 2: Class II , Division 1 : Class II . Division 2;Class III; Zone 1&2. Zone 21&22									



# UFO HIGH BAYS

## B SERIES

Copper free aluminum housing. High impact resistance.  
Various installation methods. Stainless steel hardware.  
Replaceable LED driver board & driver.  
Marine rated powder coating.



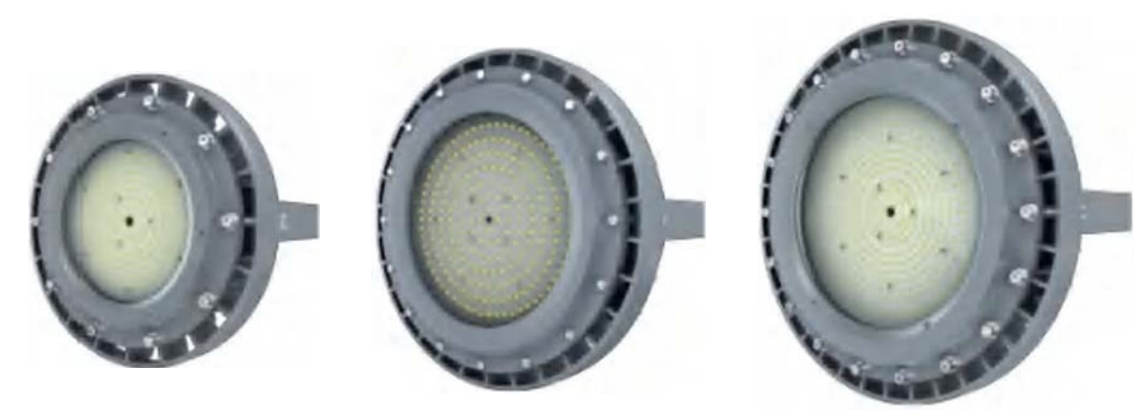
	EX-XXW	EX-XXW	EX-XXW	EX-XXW	EX-XXW
Model:	BYZDA	B2YZDA	B3YZDA	B4YZDA	B5YZDA
Rated Wattage(W):	60/80	20/40	100/150/200	250/300/350/400	80/100
Rated Lumen(Lm):	8,400/111,200	2,800/5,600	14,000/21,000/28,000	35,000/42,000/49,000/56,000	8,400/14,000
Dimension (inch):	9.57x9.06x6.7	010.55x5.06	14.62x14.57x7.76	018.9x9.5	13.58X12.95X6.5
Voltage Option:	AC100-277V/DC12-48V/AC200-480V				
CCT:	2,200-7,000K				
Beam Angle(Deg):	40/60/90/120				
CRI:	>70				
Control Option:	0-10V DC				
Protection Class:	IP66				
Mounting:	Ceiling Mounting, Wall Mounting, Pole Pendant Mounting, Stanchion Mounting, Wall Mounting				
Compliance:	ETL/UL1598/UL1598A/UL844/IECEX/ATEX/ABS/CB/API Spec Q1/CSA				
Rating:	Class I ,Division 2; Class II, Division 1 ; Class II . Division 2;Class III ; Zone 1&2, Zone 21&22				



UFO HIGH BAY

C SERIES

High quality SMT LED and Meanwell Driver. Heavy-duty and high impact resistance.  
Replaceable LED board and drivers. Marine rating powder coated finish treatment. Glass lens or polycarbonate lens to make various beam angles.



Model:	Q1YZDA	Q1YZDA	Q1YZDA	Q1YZDA	Q2YZDA	Q2YZDA	Q2YZDA
Rated Wattage(W):	20	40	60	80	100	150	200
Rated Lumen(Lm):	2,800	5,600	8,400	11,200	14,000	21,000	28,000
Dimension(Inch):	H12.5><W11.1				H16.7><W13.8		
Voltage Option	AC100-277V/200-480V						
CCT:	2,200-7,000K						
Beam Angle (Deg):	120						
CRI:	>70						
Control Option:	0-10V DC						
Protection Class:	IP66						
Mounting:	Surface Mounting, Pendant Mounting, Wall Mounting, Pole Mounting						
Compliance:	UL1598/UL844/IECEX/ATEX/API Spec Q1 / CB/UL/1598A						
Rating:	Class I, Division 2; Class II, Division 2; Class II, Zone 1&2, Zone 21 & 22.						



# HEAVY DUTY FLOOD HIGH BAYS

## D SERIES

High quality SMT LED and Meanwell Driver. Heavy-duty and high impact resistance.  
Replaceable LED board and drivers. Marine rating powder coated finish treatment. Glass lens or polycarbonate lens to make various beam angles.



	EX-20W	EX-40W	EX-60W	EX-BOW	EX-100W	EX-150W	EX-200W
Model:	D2YZDA	D2YZDA	D2YZDA	D2YZDA	DYZDA	DYZDA	DYZDA
Rated Wattage (W):	20	40	60	80	100	150	200
Rated Lumen (Lm):	2,800	5,600	8,400	11,200	14,000	21,000	28,000
Dimension (Inch):	11.6x11.6x9.56				15.7x11.3x1Q.0		
Voltage Option:	AC100-277V/DC12-48V/AC200-480V						
CCT:	2,200-7,000K						
Beam Angle (Deg):	40/60/90/120						
CRI:	>70						
Control Option:	0-10V DC						
Protection Class:	IP66						
Mounting:	Ceiling Mounting, Wall Mounting, Pole Mounting						
Compliance:	ETL/UL 1598/UL1598A/UL844/IECEX/ATEX/ABS/CB/API Spec Q1/CSA						
Rating:	Class I ,Division 2: Class II , Division 1: Class II, Division 2;Class III ; Zone 1&2, Zone 21&22						



Food SERIES Food lights

Carefully designed industrial lighting reduces the risk of broken glass falling on food. Outstanding longevity and waterproof luminaires. Replace the factory lights with a more eco-friendly system. Create a comfortable working environment while meeting all required lighting standards.



	EX-20W	EX-40W	EX-60W	EX-BOW	EX-100W	EX-150W	EX-200W
Model:	B2YZD A-F	B2YZD A-F	BYZD A-F	BYZD A-F	B3YZD A-F	B3YZD A-F	B3YZDA-F
Rated Wattage (W):	20	40	60	80	100	150	200
Rated Lumen (Lm)	2,800	5,600	8,400	11,200	14,000	21,000	28,000
Dimension [0xH(Inch)]:	10.55x12.03/9.21/6.52		12.6x11.92/9.13/5.92		17.64x14.08/12.16/8.75		
Voltage Option:	AC 100-277V(by IC) or DC 12-48V						
CCT:	2,200-7,000K						
Beam Angle (Deg):	40/60/90/120						
CRI:	>70						
Warranty:	5 Years						
Protection Class:	IP66						
Mounting:	Hook Mounting, Wall Mounting to Junction Box, Pole Mounting, Stanchion Mounting						
Compliance:	ETL/UL844/IECEX/CB/AT EX/NSF/CSA						
Rating:	Class I ,Division 2; Class II , Division 1: Class II, Division 2;Class III ; Zone 1&2, Zone 21&22						



# JELLY JAR

## G SERIES

Copper free aluminum housing. Heavy duty and high impact resistance design. Stainless steel hardware. Anti-static and anti-corrosion coating. Flat and globe glass lens. Replaceable LED board & driver. Marine rated powder coating.



Model:	EX-10W GYZDA	EX-20W GYZDA	EX-30W GYZDA	EX-40W GYZDA	EX-SOW GYZDA
Rated Wattage(W):	10	20	30	40	50
Rated Lumen(Lm):	1,400	2,800	4,200	5,600	7,000
Dimension(Inch):	H12.3x06.9				
Voltage Option	AC100-277V/DC12-48V				
CCT:	2,200-7,000K				
Beam Angle (Deg):	40/60/90/120				
CRI:	>70				
Control Option:	0-10V DC				
Protection Class:	IP66				
Mounting:	Ceiling Mounting, Wall Mounting, Pole Mounting, Pendant Mounting				
Compliance:	ETL/UL1598/UL1598A/UL844/IECEX/ATEX/ABS/CB/API Spec Q1				
Rating:	Class I, Division 1 & 2; Class II, Division 1; Class II, Division 2; Class III				



# LINEAR HIGH BAYS

## H SERIES

Copper free aluminum housing. Heavy duty and high impact resistance design. Stainless steel hardware. Replaceable LED board & driver.

Thermal shock resistant PC diffuser. Design for humid, corrosive and dusty locations. Marine rated powder coating.



Model:	EX-20W H2YZDA	EX-40W H2YZDA	EX-40W H4YZDA	EX-60W H4YZDA	EX-SOW H4YZDA
Rated Wattage (W):	20	40	40	60	80
Rated Lumen (Lm):	2,800	5,600	5,600	8,400	11,200
Dimension (Inch):	23.6x4.Sx4.7		47.2x4.Sx4.7		
Voltage Option:	AC100-277V/DC12-48V/AC200-480V				
CCT:	2,200-7,000K				
Beam Angle (Deg):	120				
CRI:	>70				
Control Option:	0-10V DC				
Protection Class:	IP65				
Mounting:	Ceiling Mounting, Wall Mounting, Pole Bracket Mounting				
Compliance:	ETL/UL1598/UL1598A/UL844/IECEX/ATEX/ABS/CB/API Spec 01				
Rating:	Class I, Division 2; Class 11, Division 1; Class 11, Division 2; Class 111; Zone 2, Zone 21 & 22				



# LINEAR HIGH BAYS

## I SERIES

Copper-free aluminum housing. Stainless steel hardware. High impact resistance design.  
Replaceable LED board & driver. Marine rated powder coating. High explosion-proof rating for high harsh locations.



	EX-20W	EX-40W	EX-60W	EX-60W	EX-SOW	EX-100W	EX-120W
Model:	I2YZDA	I2YZDA	I2YZDA	I4YZDA	I4YZDA	I4YZDA	I4YZDA
Rated Wattage(W):	20	40	60	60	80	100	120
Rated Lumen(Lm):	2,800	5,600	8,400	8,400	11,200	14,000	16,800
Dimension (Inch):	23.3x5.51xS.22					46.1xS.51xS.22	
Voltage Option:	AC100-277V/DC12-36V/AC200-480V						
CCT:	2,200-7,000K						
Beam Angle(Deg):	40/60/90/120						
CRI:	>70						
Control Option:	0-10V DC						
Protection Class:	IP66						
Mounting:	Ceiling Mounting, Wall Mounting, Pole Bracket Mounting, Chain Mounting, Pole Pendant Mounting						
Compliance:	ETL/UL1598/UL1598A/UL844/IECEX/ATEX/ABS/CB/API Spec Q1						
Rating:	Class I, Division 1&2; Class 11, Division 1; Class 11, Division 2; Class 111; ; Zone 1 & 2, Zone 21 & 22						



# EXIT SIGN

## J SERIES

Integral battery back-up power supply and fully automatic operation. 3 hours battery back-up time. Low wattage for energy saving. Outdoor use and resistant to salt water.  
Built-in battery replacement notification. Lightweight and reasonable size.

Model:	EX-3W JYZD	EX-SW JYZD
Rated Wattage(W):	3	5
Dimension(Inch):	17.4x16.42x4.54	
Voltage Option:	AC100-277V; DC12-36V	
CCT:	Red/Green	
Protection Class:	Suitable for Wet Location	
Mounting:	Wall Mounting with Arm, Pendant Mounting, Pole Mounting	
Compliance:	UL924/UL844/API Spec Q1/CSA/UL1598/UL1598A/ETL	
Rating:	Class I, Division 1&2; Class II, Division 1; Class 11, Division 2; Class III	





AREA LIGHTS

STA SERIES

ATEX and IECEx certified. Copper free aluminum body and frame- corrosion resistant. Easy for angle adjustment. Heat-sinking technology ensures long lifespan and low light decline. High luminous Efficacy -Up to 120-140 Lm/W. Valid over the entire temperature range from -40°C to 60° C (-40 °F to 140°F).



Model:	EX-300W	EX-100W	EX-150W	EX-200W	EX-100W	EX-150W	EX-200W
	STA1	STA2	STA2	STA2	STA3	STA3	STA3
Rated Wattage(W):	250	100	150	200	100	150	200
Efficiency:	120-140 lm/W						
Dimension(Inch):	10.4x16.3x2.9	10.9x17.1x3.3			13.0x21.7x2.8		
Voltage Option	AC100-305V/180-525V						
CCT:	2,200-7,000K						
Beam Angle (Deg):	Type III. 10-120 Degree.						
CRI:	>70						
Control Option:	0-10V DC						
Protection Class:	IP66						
Mounting:	Wall Mounting, Pole Mounting						
Compliance:	UL844/IECEX/ATEX/CB						
Rating:	Class I, Division 2; Class II, Division 1; Class II, Division 2; Class III Zone 1&2, Zone 21&22						



VAPOR TIGHTS

R SERIES

ATEX and IECEx certified. Heavy duty and impact resistance. Heat-sinking technology ensures long lifespan and low light decline. Waterproof and vapor/ dust/explosion proof.



Model:	Q1YZDA	Q1YZDA	Q1YZDA	Q1YZDA	Q2YZDA	Q2YZDA	Q2YZDA
Rated Wattage(W):	20	40	60	80	100	150	200
Rated Lumen(Lm):	2,800	5,600	8,400	11,200	14,000	21,000	28,000
Dimension(Inch):	H12.5><W11.1				H16.7><W13.8		
Voltage Option	AC100-277V/200-480V						
CCT:	2,200-7,000K						
Beam Angle (Deg):	120						
CRI:	>70						
Control Option:	0-10V DC						
Protection Class:	IP66						
Mounting:	Surface Mounting, Pendant Mounting, Wall Mounting, Pole Mounting						
Compliance:	UL1598/UL844/IECEX/ATEX/API Spec Q1 / CB/UL/1598A						
Rating:	Class I, Division 2; Class II, Division 2; Class II, Zone 1&2, Zone 21 & 22.						





# ALINA LIGHTING SOLUTIONS

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