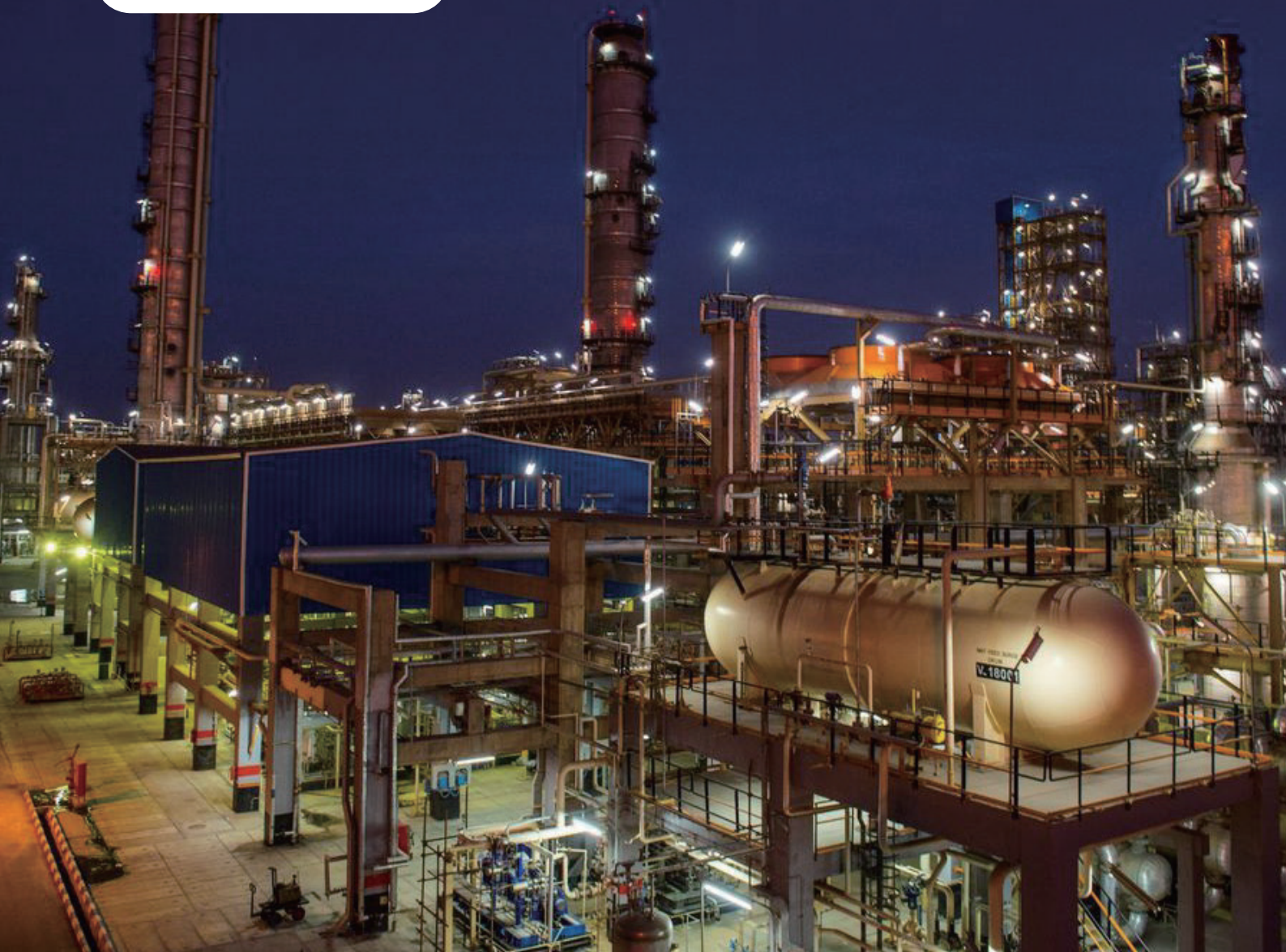




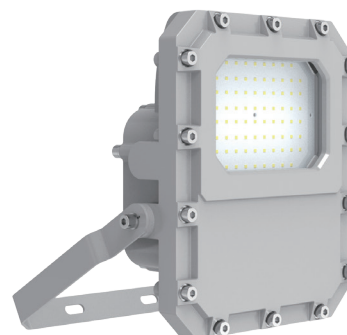
Pan American
Professional Lighting Manufacturer

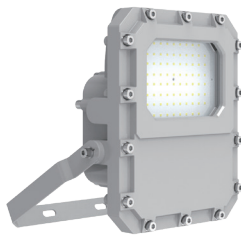


HAZARDOUS LOCATION LED LUMINAIRE

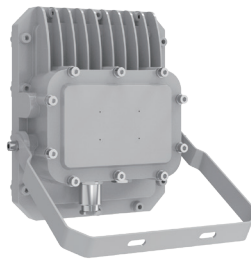
FLA1/FLA1e/FLA2/FLA2e SERIES (Zone 1)

Building 6, TianAn Cyber Park, No.88, Jinyuan Road, Zhongtang Town,
Dongguan, Guangdong, China

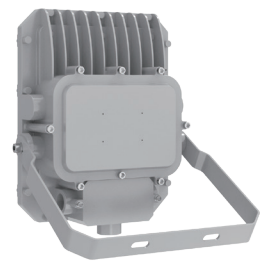




Front view: FLA1/FLA1e



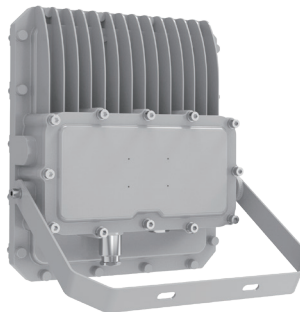
Back view: FLA1



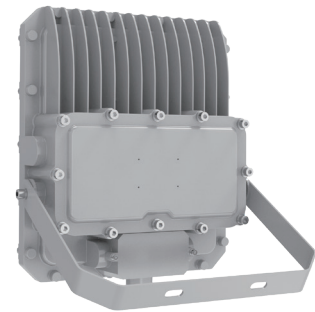
Back view: FLA1e



Front view: FLA2/FLA2e



Back view: FLA2



Back view: FLA2e

- **FLA1: Flame-proof type**
- **FLA1e: Flame-proof and increased safe type**
- **FLA2: Flame-proof type**
- **FLA2e: Flame-proof and increased safe type**

Product Description

FLA series explosion-proof LED lighting fixtures are industrial safety lighting products tailor-made for hazardous explosive environments. The entire product line has obtained dual international explosion-proof certifications of ATEX and IECEx, fully complying with the EN 60079 series explosion-proof standards. Capable of long-term stable operation under extreme harsh industrial working conditions including high humidity, heavy dust, strong corrosion, continuous vibration, rain, snow, and wide temperature fluctuations, this lighting solution is widely applied in high-risk industries such as oil & gas, chemical processing, energy, papermaking, and wastewater treatment, serving as a long-lasting safe lighting option for flammable and explosive factory sites.

Features

- FLA1/FLA2 are pure flameproof luminaires, while FLA1/FLA2e are combined flameproof and increased safety luminaires.
- Equipped with 0-10V dimming function.
- The housing is made of ADC12 aluminum alloy with electrostatic powder coating, offering excellent heat dissipation and corrosion resistance.
- The whole unit is certified IK10 for high impact resistance to withstand external mechanical shocks.
- Marine-grade anti-corrosion powder coating is applied on the surface for long-term service in corrosive environments.
- Models FLA2, FLA2e are available with emergency function, with a maximum backup duration of 90 minutes.

Compliance

FLA1

Ex db IIB+H2 T6/T5 Gb ,
Ex tb IIIC T80 °C/T95 °C Db

FLA1e

Ex db eb IIB+H2 T6/T5 Gb ,
Ex tb IIIC T80 °C/T95 °C Db

FLA2

Ex db IIB T6...T4 Gb
Ex tb IIIC T80 °C...T100 °C Db

FLA2-EM

Ex db IIB T6 Gb
Ex tb IIIC T80 °C Db

FLA2e

Ex db eb IIB T6...T4 Gb
Ex tb IIIC T80 °C...T100 °C Db

FLA2e-EM

Ex db eb IIB T6 Gb
Ex tb IIIC T80 °C Db

Application & Warranty

- Power Plants
- Heavy Industrials Storage Facility
- Paper mills
- Wastewater Treatment Plants
- Loading Docks Platforms
- Offshore Environments
- Chemical Processing Facility
- Petrochemical Processing Facility
- Metallurgical Industry
- Coal Mine
- Food and Alcohol industry

5-Year Standard Warranty

LED lumen Maintenance: L70> 150,000 Operation Hours@55°C

Technical Parameter

• Electrical

Specification	EX-XXXW FLA1	EX-XXXW FLA1e
Rated Power	20-100W	20-100W
Input Voltage	200-250VAC/DC36V	
Input Frequency	50/60Hz	
Power Factor	> 0.9	
Emergency	Without emergency function	

• Optical

Specification	EX-XXXW FLA1	EX-XXXW FLA1e
Lumen Output	2600-13000lm	2600-13000lm
Lumens Per Watt	130lm/W	
CCT	3000K-6500K	
CRI	> 70	
Beam Angle	40°/60°/90°/120°	
Dimming	0-10V dimming	

• Environmental

Specification	Rated power	Ambient Temp.	Temp. Class(Gas/Dust)
EX-XXXW FLA1	20-100W	-40℃ to +40℃	T6 / T80℃
		-40℃ to +55℃	T5 / T95℃
EX-XXXW FLA1e	20-100W	-40℃ to +40℃	T6 / T80℃
		-40℃ to +55℃	T5 / T95℃
	20-50W	-40℃ to +65℃	T5 / T95℃

• Mechanical

Specification	EX-XXXW FLA1	EX-XXXW FLA1e
Product Type	Flame-proof type	Flame-proof and increased safe type
Cable Entry	Side: M25 or 3/4 NPT	Side: M25 or 3/4 NPT Bottom: M25 or 3/4 NPT
Housing Material	Copper-free aluminum	
Diffuser	Tempered glass	
Hardware	Stainless steel	
Protection	IP66/IK10	
Mounting	Ceiling	
Mounting Accessory*	Bracket	

~~*The bracket is the standard accessory packed together with the fixture.~~

*The bracket is the standard accessory packed together with the fixture.

Technical Parameter

• Electrical

Specification	EX-XXXW FLA2	EX-XXXW FLA2e
Rated Power	50-200W	50-200W
Input Voltage	200-250VAC/DC36V	
Input Frequency	50/60Hz	
Power Factor	> 0.9	
Emergency	Emergency function available - up to 90 minutes back-up supply time	

• Optical

Specification	EX-XXXW FLA2	EX-XXXW FLA2e
Lumen Output	6500-26,000lm	6500-26,000lm
Lumens Per Watt	130lm/W	
CCT	3000K-6500K	
CRI	> 70	
Beam Angle	40°/60°/90°/120°	
Dimming	0-10V dimming	

• Environmental

Specification	Rated power	Ambient Temp.	Temp. Class(Gas/Dust)
EX-XXXW FLA2	50W-180W	-40℃ to +55℃	T5 / T95℃
EX-XXXW FLA2-EM	50-100W/50-130W	0℃ to +40℃	T6 / T80℃
EX-XXXW FLA2e	50W-180W	-40℃ to +55℃	T5 / T95℃
EX-XXXW FLA2-EM	50-100W	0℃ to +40℃	T6 / T80℃

NOTE : Refer the IECEx certificate for exact temperature and T-code information.

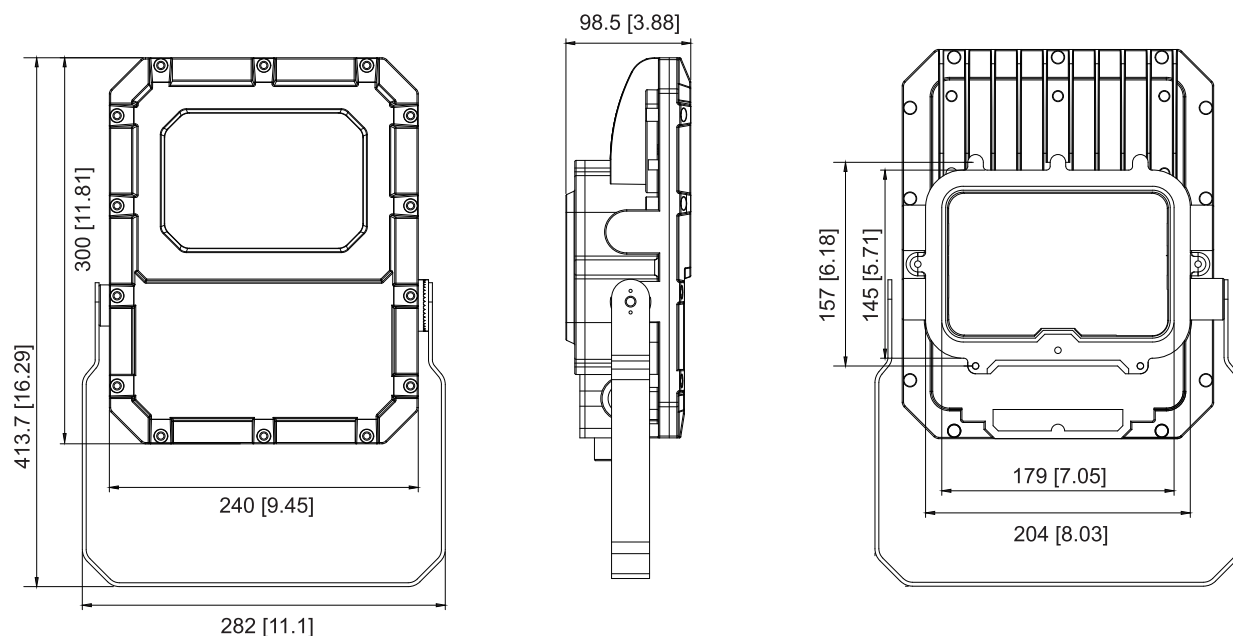
• Mechanical

Specification	EX-XXXW FLA2	EX-XXXW FLA2e
Product Type	Flame-proof type	Flame-proof and increased safe type
Cable Entry	Side: M25 or 3/4 NPT	Side: M25 or 3/4 NPT Bottom: M25 or 3/4 NPT
Housing Material	Copper-free aluminum	
Diffuser	Tempered glass	
Hardware	Stainless steel	
Protection	IP66/IK10	
Mounting	Ceiling	
Mounting Accessory*	Bracket	

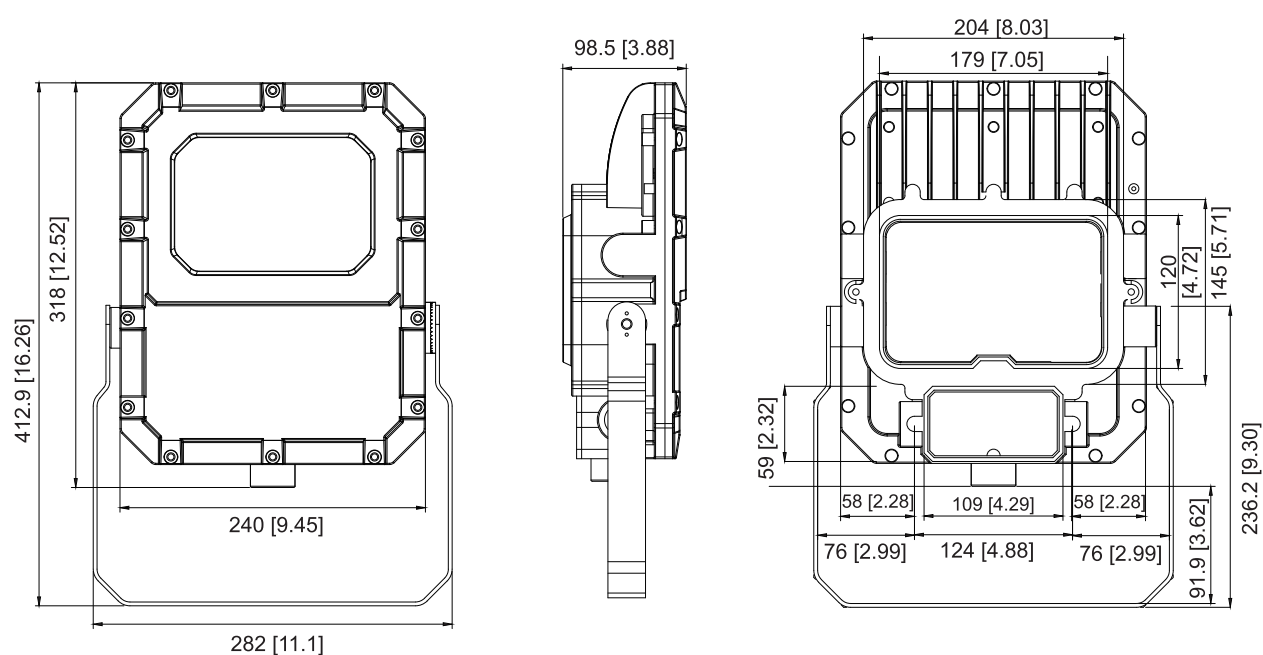
*The bracket is the standard accessory packed together with the fixture.
*The bracket is the standard accessory packed together with the fixture.

Product Dimensions

FLA1: Flame-proof type

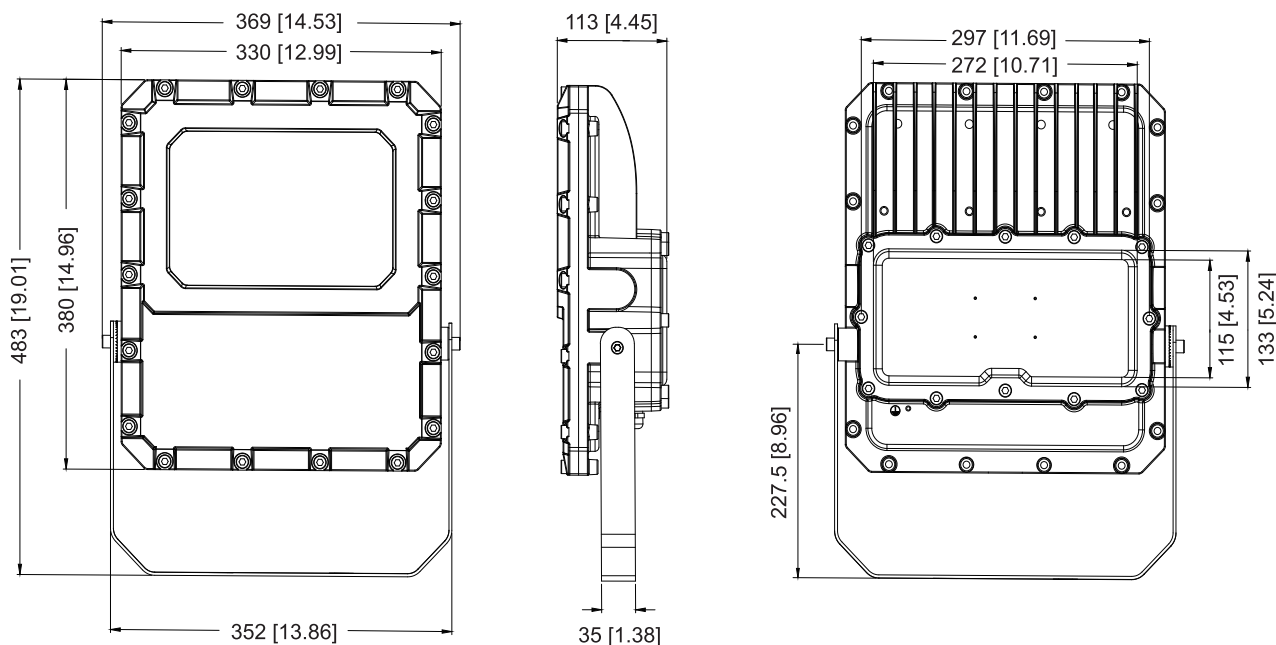


FLA1e: Flame-proof and increased safe type

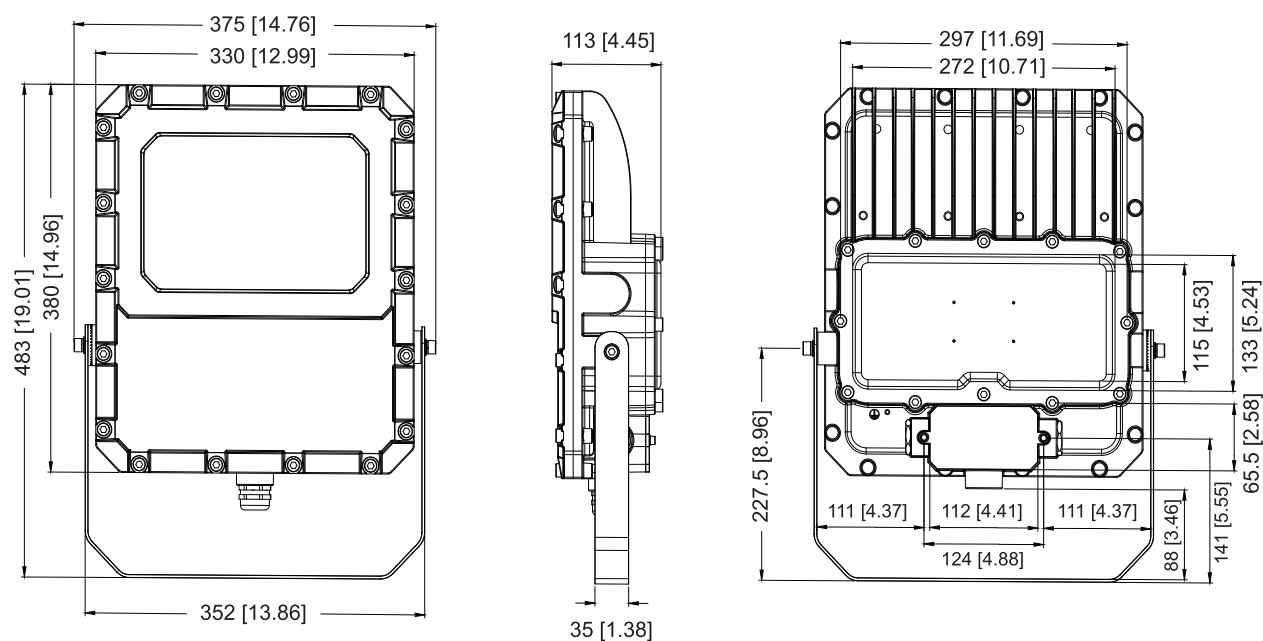


Product Dimensions

FLA2: Flame-proof type



FLA2e: Flame-proof and increased safe type

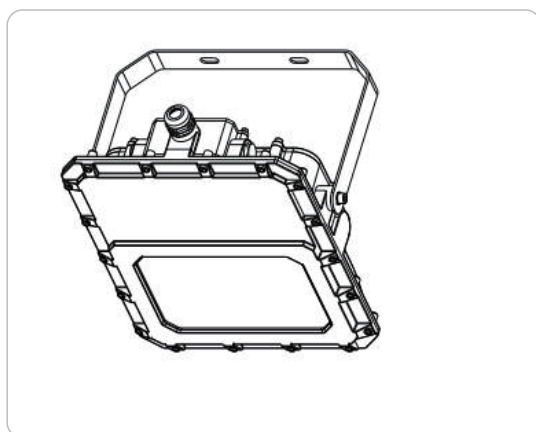


• Packing Information

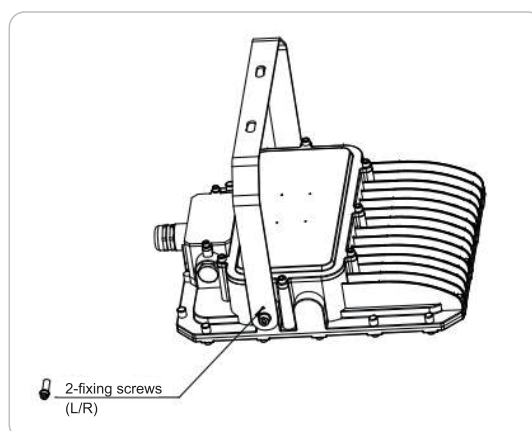
Model	Net Weight	Gross Weight	Quantity/Carton	Package Dimensions (LxWxH)
FLA1/FLA1e	8.5 kg/ 18.74 lb	10 kg/ 22.05 lb	1 pc	544x376x240mm/21.42x14.80x9.45inch
FLA2/FLA2e	12.5 kg/ 27.56 lb	14.5 kg/ 31.97 lb	1 pc	612x482x255mm/24.09x18.97x10.04inch

Mounting Methods

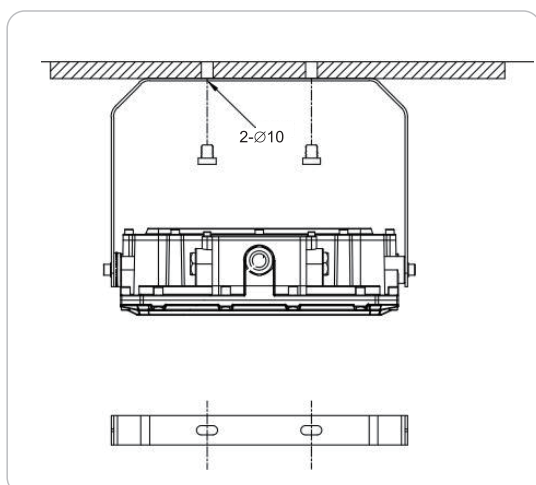
• Ceiling Mounting



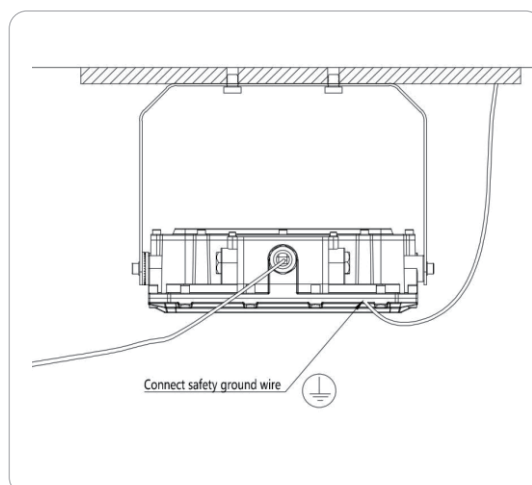
Step 1: Fix two U-bracket screws as above.



Step 2: Fix two angle holder screws as shown.



Step 3: Install the Ø10 expanded screws, match the bracket to the bolts, and tighten the nuts.



Step 4: Connect the AC cable. Black connects to L, white to N, green to grounding.

Ordering Guide

EX - xxxW FLA * * D***

①

②

③

④

⑤

⑥

1.EX

Explosion Proof Light

2.Wattage

FLA1/ FLA1e : 20/ 30/40/50/60/70/80/90/100W
FLA2/ FLA2e : 50/60/70/80/90/100/110/120/130
140/150/160/170/180/190/200W
FLA2-EM/ FLA2e-EM : 50/60/70/80/90/100W

3.Original Series

FLA1, FLA1e, FLA2, FLA2-EM, FLA2e, FLA2e-EM
(e: Increased safety chamber ; EM: Emergency power supply)

4.Dimming Option

D: Dimmable
N: non-dimmable

5.CCT

30, 35, 40, 50, 57, 65 : 3000K, 3500K ... to 6500K

6.Beam angle

D40 = 40° D60 = 60°
D90 = 90° D120 = 120°