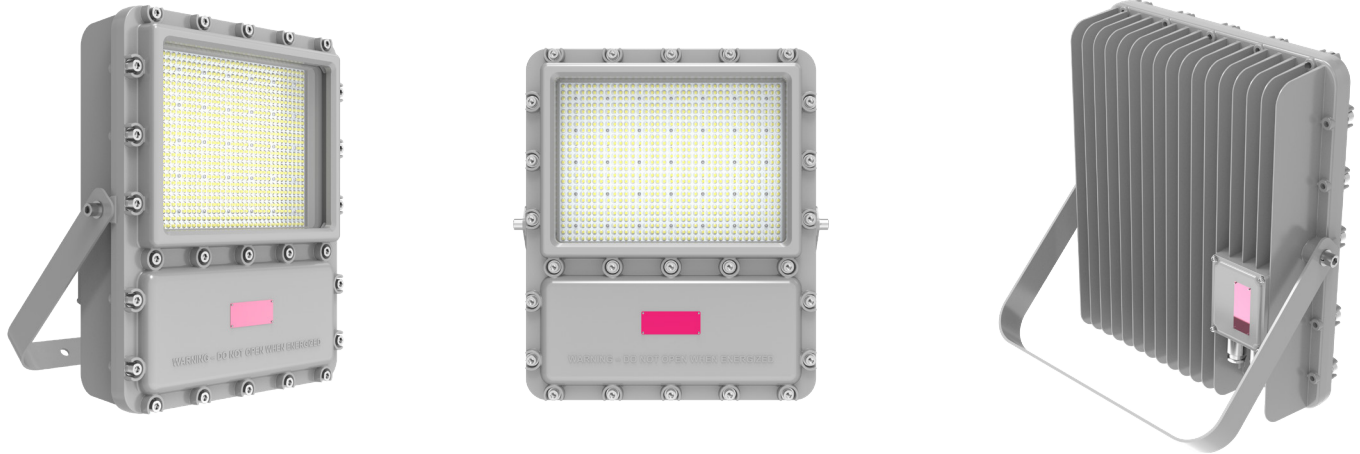


FLA3e Series

Explosion Proof Light



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.

Key Features

- 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.
- FLA3 and FLA3e adopt a heavy-duty high impact-resistant structure for long service life and stable, reliable operation.
- Models FLA3e is available with emergency function, with a maximum backup duration of 90 minutes.

Compliance

- | | |
|---------------------------|---------------------|
| • FLA3e | • FLA3e-EM |
| Ex db eb IIB+H2 T6/T5 Gb | Ex db eb IIB T6 Gb |
| Ex tb IIIC T80°C/T95°C Db | Ex tb IIIC T80°C Db |
| • IP66 | |
| • IK10 | |

Application

Oil and gas industry

- All petroleum production and refining
- Petroleum loading and transportation
- Petroleum storage and retail
- LNG industry
- All mining operations and service

Ocean, marine and aerospace field

- Ocean platform operation facilities
- Aerospace clean room and production
- Ocean vessel operations
- Other high humidity, high dust, high temperature, vapor locations

Chemical industry

- All types of paint facilities
- Chemical production and storage

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

Specifications

Electrical

Model	EX-xx FLA3e
Rated Power	Max. 500W
Input Voltage	200-250 VAC
Input Frequency	50/60 Hz

Optical

Model	EX-xx FLA3e
Lumens	Max. 65,000
Efficiency	130 lm/W
Color Temperature	3000K-6500K
CRI	>70
Beam Angle	40° / 60° / 90° / 120°
Dimming	Non-dimmable
Surge Protection	10/20 kV
Emergency Function	Only 320W with emergency function up to 3 hours emergency time.

Environmental

Model	Rated power	Ambient Temp.	Temp. Class(Gas/Dust)
EX-XXXW FLA1	100-480W	-40℃ to +55℃	T5 / T95℃
	100-200W	-40℃ to +65℃	T6 / T80℃
EX-XXXW FLA1e	100-200W	0℃ to +40℃	T6 / T80℃
	100-300W	0℃ to +45℃	T6 / T80℃

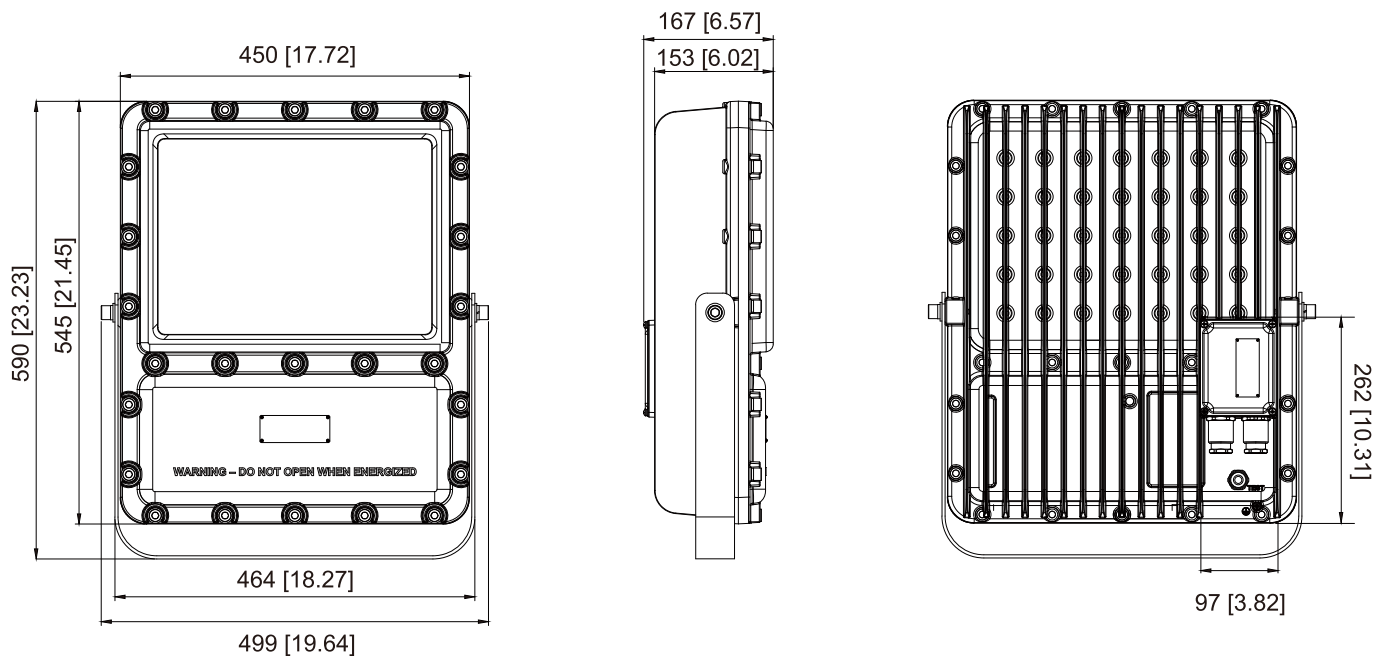
*Refer the IECEx and AETX certificate for exact temperature and T-code information.

LED Explosion Proof Light-FLA3e Series

● Mechanical

Model	EX-xx FLA3e
LED Type	5050
Driver	MEANWELL
Housing	Aluminum alloy ADC12
Hardware	Stainless steel
Ingress Protection	IP66
Impact Resistance	IK10
Mounting	Bracket mounting
Cable Gland	2xM20 (standard); 2xM25 (optional)
Surface Treatment	Powder coating
Product Dimension	590x464x165mm (23.23x18.27x6.49inch)
Lifespan	50,000 hours
Warranty	5 years

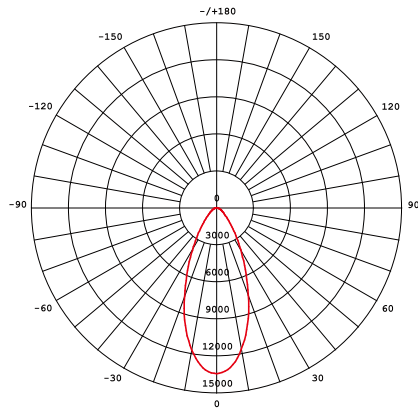
● Dimensions:mm[inch]



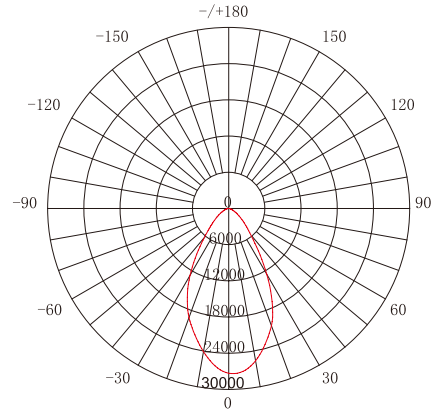
● Packing Information

Model	Qty/Carton	Packing Size	Net Weight	Gross Weight
EX-xx FLA3e	1 pc	650x524x235 mm (25.59x20.63x9.25 inch)	30 kgs (66.14 lbs)	34 kgs (74.96 lbs)

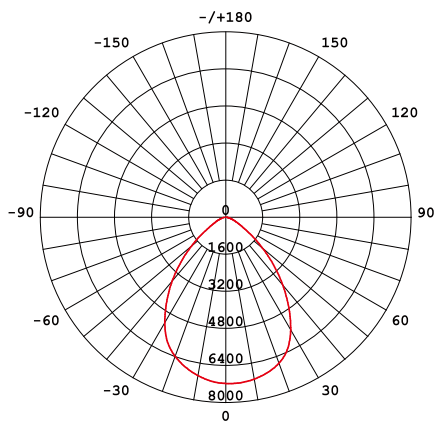
Photometry



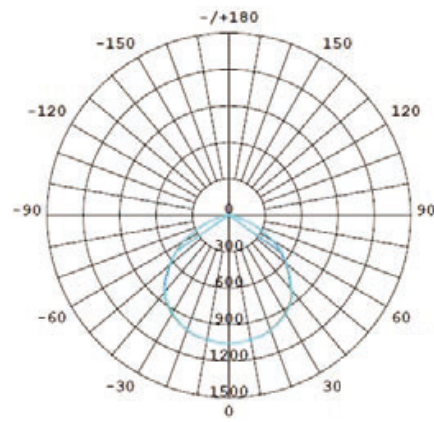
Beam angle: 40°



Beam angle: 60°



Beam angle: 90°



Beam angle: 120°

Ordering Guide

EX - xxxW FLA * * D***

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②

③

④

⑤

⑥

1.EX

Explosion Proof Light

2.Wattage

FLA3e : 100/120/150/160/180/200/220/240/250/260/280/

300/320/350/380/400/450/480/500W

FLA3e-EM : 100/120/150/160/180/200W

3.Original Series

FLA3e and FLA3e-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°